PRODUCT GUIDE

VOLUME 11

Martin®

Engineered for the eye

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Introduction

Martin Professional is the world's leading dynamic lighting and visual solutions company. For over 25 years, we've worked in partnership with leading designers to deliver high impact visual solutions for tours, special events, theatres, TV studios, nightclubs, leisure environments, and architectural and commercial settings across the globe.

Our state-of-the-art luminaires and video displays are of the highest quality. Add a line of advanced media servers, lighting controllers and smoke machines and we offer the industry's most comprehensive range of visual solutions.

At Martin, we pride ourselves on the level of excellence we engineer into every product while aiming to reduce operating and maintenance costs. By providing the most efficient and durable equipment on the market, Martin products deliver the industry's best return on investment.

It is our ambition to be the greenest company in our industry. That's why we regard environmental regulations as the minimum standards of environmental performance and are leading a new revolution in green LED research, developing the most powerful and energy-efficient LED light sources on the market.

This product guide provides an overview of our entire range. For all the latest details on individual products, contact your nearest Martin dealer or view the complete range on our website at

www.martin.com

Martin Professional, September 2012

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Martin Lighting and Video Package for

Korn "Path of Totality" Tour

Lighting Designer: Jason Bullock

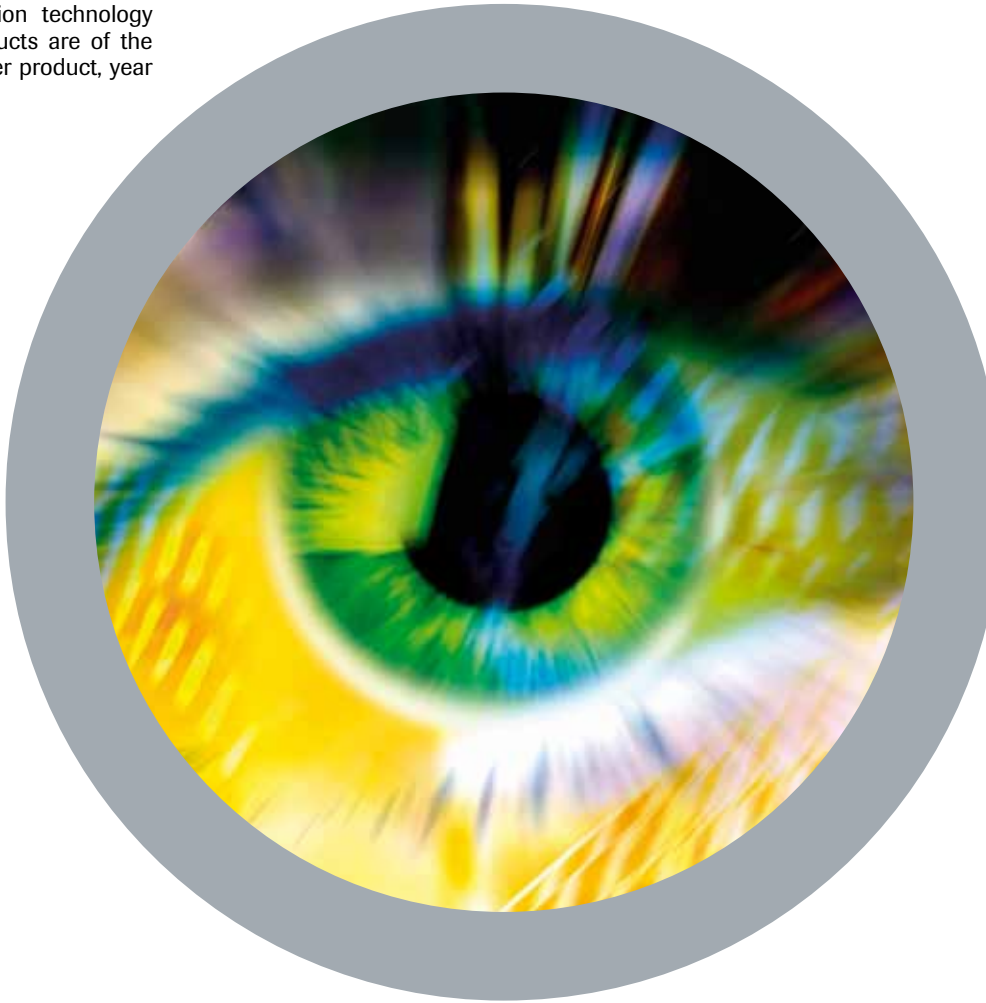
Engineered for the eye

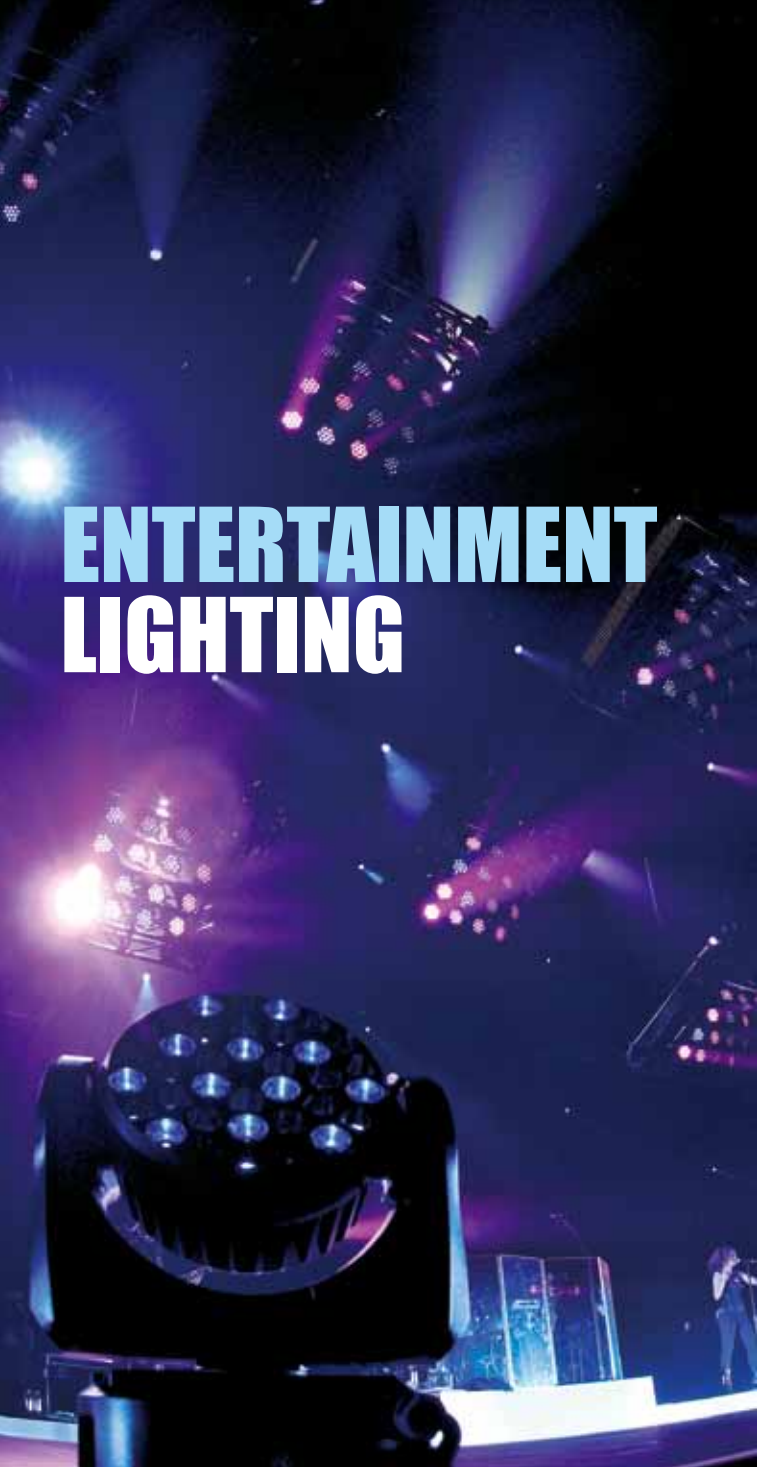
Sophisticated color and brightness calibration technology is just one way that we ensure Martin products are of the highest quality and consistency - product after product, year after year.

Leaders in LED
- setting new standards in LED performance, power and efficiency

Leaders in innovation
- merging light and video via a broad portfolio of award-winning products

Leaders in efficiency
- low power consumption, low operating costs, second-to-none product durability





ENTERTAINMENT LIGHTING

- MAC 101
- MAC 101 CT
- MAC 101 CLD
- MAC 101 WRM
- MAC 301 Wash
- MAC Aura
- MAC 350 Entour
- MAC 700 Profile
- MAC 700 Wash
- MAC TW1
- MAC Viper Profile
- MAC III Profile
- MAC III Performance
- MAC III AirFX
- MAC III Wash

- Stagebar 2

- Atomic 3000 DMX
- Atomic Colors
- Detonator

	MAC III Wash™	MAC III AirFX™	MAC TW1™	MAC 700 Wash™
LIGHT SOURCE				
Type & Wattage	1500 W short-arc disharge lamp with Lok-it!™ base	1500 W short arc discharge lamp with Lok-it!™ base	1200 W tungsten halogen	700 W short arc discharge
COLOR				
Color Mixing System	CMY	CMY	CMY	CMY
CTC	Variable CTC	Variable CTC		Variable CTC
Color Wheel	7-position color wheel plus open	7-position color wheel plus open		8-position color wheel plus open
OPTICS				
Beam	Soft-edge beam	Fat, tight beam	Soft-edge beam	Soft-edge beam
Dimming	Mechanical dimming	Mechanical dimming	Internal & external electronic dimming plus mechanical dimming	Mechanical dimming
Lens / Lens Options	9-inch Fresnel	9-inch precision fat-beam PC lens, optional Fresnel lens	Fresnel (included), narrow, and multi array	Fresnel
Zoom	Motorized zoom	Motorized zoom	Motorized zoom	Motorized zoom
Beam Angles	*	*	14.5° -41° / 97 - 105° (80 V dimmer)	12.5-66°
				Indexing & rotating beamshaper
EFFECTS				
Prism / Frost / Iris / Beamshaper	Rotatable internal barndoors, continuously variable opening, motorized iris	Fade-in/out wash/motorized iris		
Shutter	Instant blackout/open, strobe and pulse	Instant blackout/open, strobe and pulse	Strobe effect up to 10 Hz, random strobe	Strobe effect up to 10 Hz, random strobe, pulse effect
Gobo		Rotating aerial effects		
MOVEMENT				
Pan & Tilt	540°/268°	540°/268°	540°/242°	540°/246°
ELECTRICAL				
Ballast	Electronic ballast with semi-hot (<90 sec.) lamp restrike and flicker-free light	Electronic ballast with semi-hot (<90 sec.) lamp restrike and flicker-free light	80 V dimmer for universal operating voltage	Electronic ballast with hot lamp restrike and flicker-free light
PHOTOMETRIC DATA				
Maximum Total Output	*	*	14200 lumens	18700 lumens
PHYSICAL				
Weight	53.5 kg (118 lb)	55 kg (121.3 lb)	27.4 kg (60.3 lb)	32 kg (70.4 lb)

* See product specification on www.martin.com

	MAC III Profile™	MAC III Performance™	MAC Viper Profile™	MAC 350 Entour™
LIGHT SOURCE				
Type & Wattage	1500 W short arc discharge lamp with Lok-it!™ base	1500 W short arc discharge lamp with Lok-it!™ base	1000 W short-arc discharge lamp with Lok-it™base	LED source
COLOR				
Color Mixing	CMY	CMY	CMY	
Variable CTC	Variable CTC	Variable CTC	Variable CTC	
Color Wheel	7-position color wheel plus open	7-position color wheel plus open	8-position color wheel plus open	8-position color wheel plus open
OPTICS				
Dimming	Mechanical dimming	Mechanical dimming	Mechanical dimming	Electronic dimming
Lens / Lens Options	Profile (broad front lens)	Profile (broad front lens)	140 mm fat-beam PC lens	Profile
Zoom and Focus	Motorized zoom and focus with zoom-focus tracking	Motorized zoom and focus with zoom-focus tracking	Motorized zoom	Motorized focus
Beam Angles	11.5° - 55°	11.5° - 55°	*	25°
EFFECTS				
Animation System	Gobo animation wheel with full movement / direction control	Gobo animation wheel with full movement / direction control	FX wheel animation effects	
Automated Framing System		Interleaved system with full blade crossover, even focus and continuous frame rotation. 4 individually controllable blades		
Gobo	2 x 5 indexable rotating gobos plus open	5 indexable rotating gobos plus open	4 FX gobos, 5 rotating breakup and 5 rotating aerial effects	6 indexable rotating gobos plus open
Prism / Frost / Iris / Beamshaper	Interchangeable 4-facet rotating and indexable prism; optional frost filter	Frost filter; optional interchangeable 4-facet rotating and indexable prism	4-facet rotating prism, variable frost, motorized iris	
Shutter	Instant blackout/open, strobe and pulse	Instant blackout/open, strobe and pulse	Instant blackout/open, strobe and pulse	Electronic strobe, pulse and sine wave effects, instant open and blackout
MOVEMENT				
Pan & Tilt	540°/268°	540°/268°	540°/268°	630°/300°
ELECTRICAL				
Ballast	Electronic ballast, fast lamp re-strike and flicker-free light	Electronic ballast, fast lamp re-strike and flicker-free light	Electronic ballast, flicker-free light	Completely flicker-free
PHOTOMETRIC DATA				540°/257°
Maximum Total Output	33900 lumens	33900 lumens	26000 lumens	8000 lumens
PHYSICAL				
Weight	53.5 kg (117.7 lb)	54.9 kg (120.8 lb)	36 kg (79.4 lb)	16.6 kg (36.5 lb)

* See product specification on www.martin.com

	MAC Aura™	MAC 301 Wash™	MAC 101™	MAC 101 CT™	MAC 101 WRM™	MAC 101 CLD™
LIGHT SOURCE						
Type & Wattage	LED source	LED source	LED source	LED source	LED source	LED source
COLOR						
Color Mixing System	Beam (RGBW) + Aura (RGB)	RGB	Raw and calibrated RGB	Calibrated cold and warm white LEDs	Warm white LEDs	Cold white LEDs
CTC	Variable CTC	Variable CTC	Variable CTC	Variable CTC		
Color Wheel	Color wheel effect	Electronic 7 color + white color wheel effect	Electronic 33 color + white color wheel effect			
OPTICS						
Beam	Beam and aura (secondary lens array illumination)	Punchy beam, great beam definition	Tight, punchy beam	Tight, punchy beam	Tight, punchy beam	Tight, punchy beam
Dimming	Electronic dimming; four dimming curve options	Electronic dimming, fade options	Electronic dimming; four dimming curve options	Electronic dimming; four dimming curve options	Electronic dimming; four dimming curve options	Electronic dimming; four dimming curve options
Lens / Lens Options			Wide angle diffuser option			
Zoom	Motorized zoom	Fast and efficient zoom				
1/10 Peak Angle, All Optical Configurations	11° -58°	13°-35°	13°/17°/52°	13°/17°/52°	13°/17°/52°	13°/17°/52°
EFFECTS						
Shutter	Electronic with pulse, burst and strobe effects	Strobe effect with pulse and random effects	Strobe effect with pulse and random effects	Strobe effect with pulse and random effects	Strobe effect with pulse and random effects	Strobe effect with pulse and random effects
MOVEMENT						
Pan & Tilt	540° /232°	430°/300°	540°/240°	540°/240°	540°/240°	540°/240°
ELECTRICAL						
Ballast	Completely flicker-free	Completely flicker-free	Completely flicker-free	Completely flicker-free	Completely flicker-free	Completely flicker-free
PHOTOMETRIC DATA						
Maximum Total Output	3850 lumens	3900 lumens	2400 lumens	4400 lumens	3800 lumens	5900 lumens
PHYSICAL						
Weight	5.6 kg (12.3 lb)	8.9 kg (19.6 lb)	3.7 kg (8.2 lb)	3.7 kg (8.2 lb)	3.7 kg (8.2 lb)	3.7 kg (8.2 lb)

MAC 101™

The MAC 101 is a remarkably small, super light and easy-to-use LED moving head wash light with an amazingly bright beam for such a compact luminaire. It features rapid movement and calibrated colors with a low price tag that allows for revolutionary set, stage and decorative lighting design.

Features

- Bright and tight beam (13° field angle)
- 2400 lm output
- Ultra-compact, low weight design (3.7 kg)
- Rapid movement – the fastest MAC ever
- Color calibrated
- Variable CTC
- Smooth, electronic dimming
- High efficiency, low power consumption, long lifetime

Specifications

PHYSICAL

Length:	241 mm (9.5 in.) across yoke
Width:	241 mm (9.5 in.) across yoke
Height:	304 mm (12.0 in.)
Weight:	3.7 kg (8.2 lbs.)

DYNAMIC EFFECTS

Electronic 'color wheel' effect:	33 LEE-referenced colors plus white, color wheel rotation effect, random color
Color mixing:	RGB
Red:	0 - 100%
Green:	0 - 100%
Blue:	0 - 100%
Color temperature control:	Variable 2500 - 10 000 K
Shutter effect:	Electronic, with pulse and random effects
Electronic dimming:	0 - 100%, four dimming curve options
Pan:	540°
Tilt:	240°
Adjustable pan/tilt speed	

OPTICS

Light source:	Cree XP-E high power emitters

MAC 101™

Specifications

Minimum LED lifetime:	50 000 hours (to >70% luminous output)*

**LED Manufacturer´s figure obtained under manufacturer´s test conditions*

CONTROL AND PROGRAMMING

Control options:	DMX, 3 control modes (RGB raw/calibrated, RGB + CTC enabled/disabled)
Control resolution:	8-bit, with 16-bit control of pan & tilt
DMX channels:	8/12
Setting and addressing:	Control panel with backlit graphic display
Protocol:	USITT DMX512/1990
Transceiver:	RS-485
Fixture software update:	Via DMX with Martin Universal USB/DMX Converter

CONSTRUCTION

Color:	Black or white
Housing:	High-impact flame-retardant thermoplastic
Protection rating:	IP20

INSTALLATION

Mounting points:	Threaded hole for rigging clamp
Location:	Indoor use only, must be fastened to surface or structure
Orientation:	Any

CONNECTIONS

AC power input:	Neutrik PowerCon
AC power throughput:	Neutrik PowerCon
DMX data in/out:	5-pin locking XLR

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Maximum total power consumption:	123 W
Power supply unit:	Auto-ranging electronic switch mode
Standby power:	<25 W

APPROVALS

EU safety:	EN 60598-2-17, EN 62471, EN 62031, EN 61347-2-13
EU EMC:	EN 55103-1, EN 55103-2, EN 55015, EN 61547
US safety:	UL 1573
US EMC:	FCC Part 15 Class A
Canadian safety:	CAN/CSA E598-2-17
Canadian EMC:	ICES-003 Class A
Australia/NZ:	C-TICK N4241

INCLUDED ITEMS

Note that power cables and Neutrik PowerCon connectors must be ordered separately (see Accessories)

ACCESSORIES

Power cable, AWG12, SJT, with Neutrik PowerCon NAC3FCA input connector, 3 m:	P/N 11541503
Neutrik PowerCon NAC3FCA power input connector, cable mount, blue:	P/N 05342804
Neutrik PowerCon NAC3FCB power output connector, cable mount, light grey:	P/N 05342805
Power relay cable with PowerCon connectors, 1.4 m:	P/N 11850099
Power relay cable with PowerCon connectors, 2.25 m:	P/N 11850100
Set of 8 medium-angle diffusers for MAC 101:	P/N 91616018
Set of 4 top hats for MAC 101:	P/N 91611358
Set of 5 quick-mount surface mounting brackets for MAC 101:	P/N 91606017
G-clamp:	P/N 91602003
Half-coupler clamp:	P/N 91602005
Quick trigger clamp:	P/N 91602007
Safety wire, safe working load 50 kg (110.2 lbs.):	P/N 91604003
8-unit flightcase for MAC 101:	P/N 91515010

ORDERING INFORMATION

MAC 101 in cardboard box:	P/N 90231600
MAC 101 in 8-unit flightcase	P/N 90231610
MAC 101 white finish, in cardboard box	P/N 90231630

MAC 101 CT™

The ultra-compact MAC 101 LED moving head wash is available in three white light versions that expand its use to applications where high quality, pure white light is needed.

The MAC 101 CT incorporates both cold and warm LEDs instead of RGB for a better white light quality and greater output. Color temperature calibrated to ensure visual consistency across fixtures, the MAC 101 CT allows for easy changes in color temperature from crisp cold looks to warm shades, and features simple intensity control.

Features

- High quality LED white light
- Ideal for highlighting skin tones, textiles or set pieces
- Variable color temperature
- Tight and punchy beam effects, long throw
- Multiple field angle options for a perfect wash
- Incredibly fast and precise movement
- Less than 125 watt total power requirement
- Ultra-compact, low weight design (3.7 kg)
- Power and data daisy-chain

Specifications

PHYSICAL

Length:	241 mm (9.5 in.) across yoke
Width:	241 mm (9.5 in.) across yoke
Height:	304 mm (12.0 in.)
Weight:	3.7 kg (8.2 lbs.)

DYNAMIC EFFECTS

Color temperature control:	Variable 2800 - 6200 K
Shutter effect:	Electronic, with pulse and random effects
Electronic dimming:	0 - 100%, four dimming curve options
Pan/Tilt:	540°/240°
Adjustable pan/tilt speed	

OPTICS

Light source:	Cree XP-E high power emitters
Minimum LED lifetime:	50 000 hours (to >70% luminous output)*

**Manufacturer's figure obtained under manufacturer's test conditions*

CONTROL AND PROGRAMMING

Control options:	CTC, individual cold and warm white intensity
RDM:	Implemented
Control resolution:	8-bit, with 16-bit control of pan & tilt
DMX channels:	10
Setting and addressing:	Control panel with backlit graphic display
Protocol:	USITT DMX512-A, ANSI/ESTA E1.20 RDM
Transceiver:	RS-485
Fixture software update:	Via DMX with Martin USB Duo DMX Interface

INSTALLATION

Mounting points:	One M12 threaded hole for rigging clamp
Location:	Indoor use only, must be fastened to surface or structure
Orientation:	Any

CONNECTIONS

AC power input:	Neutrik PowerCon
AC power throughput:	Neutrik PowerCon
DMX data in/out:	5-pin locking XLR

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Maximum total power consumption:	123 W
Power supply unit:	Auto-ranging electronic switch mode
Standby power:	<25 W

THERMAL

Cooling:	Forced air (temperature-regulated, low noise, user-definable levels)
Maximum ambient temperature (Ta max.):	40° C (104° F)
Minimum ambient temperature (Ta min.):	5° C (41° F)
Total heat dissipation (calculated, +/- 10%):	420 BTU/hr.

APPROVALS:

EU safety:	EN 60598-2-17, EN 62471, EN 62031, EN 61347-2-13
EU EMC:	EN 55103-1, EN 55103-2, EN 55015, EN 61547
US safety:	UL 1573
US EMC:	FCC Part 15 Class A
Canadian safety:	CAN/CSA E598-2-17
Canadian EMC:	ICES-003 Class A
Australia/NZ:	C-TICK N4241

INCLUDED ITEMS

User manual:	P/N 35000246

ACCESSORIES

Power cable, AWG12, SJT, with Neutrik PowerCon NAC3FCA input connector, 3 m:	P/N 11541503
Neutrik PowerCon NAC3FCA power input connector, cable mount, blue:	P/N 05342804
Neutrik PowerCon NAC3FCB power output connector, cable mount, light grey:	P/N 05342805
Power relay cable with PowerCon connectors, 1.4 m:	P/N 11850099
Power relay cable with PowerCon connectors, 2.25 m:	P/N 11850100
Set of 8 medium-angle diffusers for MAC 101:	P/N 91616018
Set of 4 top hats for MAC 101:	P/N 91611358
Set of 5 quick-mount surface mounting brackets for MAC 101:	P/N 91606017
G-clamp:	P/N 91602003
Half-coupler clamp:	P/N 91602005
Quick trigger clamp:	P/N 91602007
Safety wire, safe working load 50 kg (110.2 lbs.):	P/N 91604003
8-unit flightcase for MAC 101:	P/N 91515010

ORDERING INFORMATION

MAC 101 CT in cardboard box:	P/N 90231620
MAC 101 CT in 8-unit flightcase:	P/N 90231625

MAC 101 CLD™

The MAC 101 CLD uses pure cold LEDs for applications where only higher color temperatures are required and is intensity controllable.

Features

- High quality LED white light
- Ideal for highlighting skin tones, textiles or set pieces
- Tight and punchy beam effects, long throw
- Multiple field angle options for a perfect wash
- Incredibly fast and precise movement
- Less than 125 watt total power requirement
- Ultra-compact, low weight design (3.7 kg)
- Power and data daisy-chain

Specifications

PHYSICAL

Length:	241 mm (9.5 in.) across yoke
Width:	241 mm (9.5 in.) across yoke
Height:	304 mm (12.0 in.)
Weight:	3.7 kg (8.2 lbs.)

DYNAMIC EFFECTS

Shutter effect:	Electronic, with pulse and random effects
Electronic dimming:	0 - 100%, four dimming curve options
Pan/Tilt:	540°/ 240°
Adjustable pan/tilt speed	

OPTICS

Light source:	Cree XP-E high power emitters
Color temperature:	6700 K
Minimum LED lifetime:	50 000 hours (to >70% luminous output)*

**Manufacturer's figure obtained under manufacturer's test conditions*

CONTROL AND PROGRAMMING

Control:	DMX
RDM:	Implemented
Control resolution:	8-bit, with 16-bit control of pan & tilt
DMX channels:	7
Setting and addressing:	Control panel with backlit graphic display
Protocol:	USITT DMX512-A, ANSI/ESTA E1.20 RDM
Transceiver:	RS-485
Fixture software update:	Via DMX with Martin USB Duo DMX Interface

CONSTRUCTION

Color:	Black or white
Housing:	High-impact flame-retardant thermoplastic
Protection rating:	IP20

INSTALLATION

Mounting points:	One M12 threaded hole for rigging clamp
Location:	Indoor use only, must be fastened to surface or structure
Orientation:	Any
Minimum distance to combustible materials:	100 mm (3.9 in.) from head, no minimum distance from base
Minimum distance to illuminated surfaces:	200 mm (7.9 in.)

CONNECTIONS

AC power input:	Neutrik PowerCon
AC power throughput:	Neutrik PowerCon
DMX data in/out:	5-pin locking XLR

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Maximum total power consumption:	123 W
Power supply unit:	Auto-ranging electronic switch mode
Main fuse:	5 AT (slow blow)
Standby power:	<25 W

THERMAL

Cooling:	Forced air (temperature-regulated, low noise, user-definable levels)
Maximum ambient temperature (Ta max.):	40° C (104° F)
Minimum ambient temperature (Ta min.):	5° C (41° F) Total heat dissipation (calculated, +/- 10%): 420 BTU/hr.

APPROVALS

EU safety:	EN 60598-2-17, EN 62471, EN 62031, EN 61347-2-13
EU EMC:	EN 55103-1, EN 55103-2, EN 55015, EN 61547
US safety:	UL 1573
US EMC:	FCC Part 15 Class A
Canadian safety:	CAN/CSA E598-2-17
Canadian EMC:	ICES-003 Class A
Australia/NZ:	C-TICK N4241

INCLUDED ITEMS

User manual:	P/N 35000246

ACCESSORIES

Power cable, AWG12, SJT, with Neutrik PowerCon NAC3FCA input connector, 3 m:	P/N 11541503
Neutrik PowerCon NAC3FCA power input connector, cable mount, blue:	P/N 05342804
Neutrik PowerCon NAC3FCB power output connector, cable mount, light grey:	P/N 05342805
Power relay cable with PowerCon connectors, 1.4 m:	P/N 11850099
Power relay cable with PowerCon connectors, 2.25 m:	P/N 11850100
Set of 8 medium-angle diffusers for MAC 101:	P/N 91616018
Set of 4 top hats for MAC 101:	P/N 91611358
Set of 5 quick-mount surface mounting brackets for MAC 101:	P/N 91606017
G-clamp:	P/N 91602003
Half-coupler clamp:	P/N 91602005
Quick trigger clamp:	P/N 91602007
Safety wire, safe working load 50 kg (110.2 lbs.):	P/N 91604003
8-unit flightcase for MAC 101:	P/N 91515010

ORDERING INFORMATION

MAC 101 CLD in cardboard box:	P/N 90231670
MAC 101 CLD in 8-unit flightcase:	P/N 90231660

MAC 101 WRM™

The MAC 101 WRM uses pure warm LEDs to mimic the warmth of tungsten halogen and is intensity controllable.

Features

- High quality LED white light
- Ideal for highlighting skin tones, textiles or set pieces
- Tight and punchy beam effects, long throw
- Multiple field angle options for a perfect wash
- Incredibly fast and precise movement
- Less than 125 watt total power requirement
- Ultra-compact, low weight design (3.7 kg)
- Power and data daisy-chain

Specifications

PHYSICAL

Length:	241 mm (9.5 in.) across yoke
Width:	241 mm (9.5 in.) across yoke
Height:	304 mm (12.0 in.)
Weight:	3.7 kg (8.2 lbs.)

DYNAMIC EFFECTS

Shutter effect:	Electronic, with pulse and random effects
Electronic dimming:	0 - 100%, four dimming curve options
Pan/Tilt:	540°/240°
Adjustable pan/tilt speed	
Optics	
Light source:	Cree XP-E high power emitters
Color temperature:	2800 K
Minimum LED lifetime:	50 000 hours (to >70% luminous output)*

**Manufacturer's figure obtained under manufacturer's test conditions*

CONTROL AND PROGRAMMING

Control:	DMX
RDM:	Implemented
Control resolution:	8-bit, with 16-bit control of pan & tilt
DMX channels:	7
Setting and addressing:	Control panel with backlit graphic display
Protocol:	USITT DMX512-A, ANSI/ESTA E1.20 RDM
Transceiver:	RS-485
Fixture software update:	Via DMX with Martin USB Duo DMX Interface

CONSTRUCTION

Color:	Black or white
Housing:	High-impact flame-retardant thermoplastic
Protection rating:	IP20

INSTALLATION

Mounting points:	One M12 threaded hole for rigging clamp
Location:	Indoor use only, must be fastened to surface or structure
Orientation:	Any
Minimum distance to combustible materials:	100 mm (3.9 in.) from head, no minimum distance from base
Minimum distance to illuminated surfaces:	200 mm (7.9 in.)

CONNECTIONS

AC power input:	Neutrik PowerCon
AC power throughput:	Neutrik PowerCon
DMX data in/out:	5-pin locking XLR

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Maximum total power consumption:	123 W
Power supply unit:	Auto-ranging electronic switch mode
Main fuse:	5 AT (slow blow)
Standby power:	<25 W

THERMAL

Cooling:	Forced air (temperature-regulated, low noise, user-definable levels)
Maximum ambient temperature (Ta max.):	40° C (104° F)
Minimum ambient temperature (Ta min.):	5° C (41° F) Total heat dissipation (calculated, +/- 10%): 420 BTU/hr.

APPROVALS

EU safety:	EN 60598-2-17, EN 62471, EN 62031, EN 61347-2-13
EU EMC:	EN 55103-1, EN 55103-2, EN 55015, EN 61547
US safety:	UL 1573
US EMC:	FCC Part 15 Class A
Canadian safety:	CAN/CSA E598-2-17
Canadian EMC:	ICES-003 Class A
Australia/NZ:	C-TICK N4241

INCLUDED ITEMS

User manual:	P/N 35000246

ACCESSORIES

Power cable, AWG12, SJT, with Neutrik PowerCon NAC3FCA input connector, 3 m:	P/N 11541503
Neutrik PowerCon NAC3FCA power input connector, cable mount, blue:	P/N 05342804
Neutrik PowerCon NAC3FCB power output connector, cable mount, light grey:	P/N 05342805
Power relay cable with PowerCon connectors, 1.4 m:	P/N 11850099
Power relay cable with PowerCon connectors, 2.25 m:	P/N 11850100
Set of 8 medium-angle diffusers for MAC 101:	P/N 91616018
Set of 4 top hats for MAC 101:	P/N 91611358
Set of 5 quick-mount surface mounting brackets for MAC 101:	P/N 91606017
G-clamp:	P/N 91602003
Half-coupler clamp:	P/N 91602005
Quick trigger clamp:	P/N 91602007
Safety wire, safe working load 50 kg (110.2 lbs.):	P/N 91604003
8-unit flightcase for MAC 101:	P/N 91515010

ORDERING INFORMATION

MAC 101 WRM in cardboard box:	P/N 90231650
MAC 101 WRM in 8-unit flightcase:	P/N 90231640

MAC 301 Wash™

The MAC 301 Wash is an LED moving head wash light with a powerfully fast zoom and impressive zoom range. It is capable of producing a wide range of exceptional colors from rich saturated shades to pastels through the entire zoom range.

Features

- Fast and efficient zoom: 13 - 35°
- Brightest LED moving head in its class
- Excellent color mixing for vibrant saturates and subtle pastels
- Punchy beam with great beam definition
- Smooth electronic dimming: 0 - 100%
- Electronic strobe with pulse and random effects
- Compact and low weight
- Quiet
- DMX-512 control
- All the benefits of LED

Specifications

PHYSICAL

Length:	200 mm (7.9 in.)
Width:	320 mm (12.6 in.)
Height:	388 mm (15.3 in.)
Weight:	8.9 kg (19.6 lbs.) excl. brackets

DYNAMIC EFFECTS

Shutter effect:	Electronic, with pulse and random effects
Electronic dimming:	0 - 100%, two dimming curve options for overall/individual RGB intensity
Color mixing:	RGB
Red:	0 - 100%
Green:	0 - 100%
Blue:	0 - 100%
Electronic 'color wheel' effect:	7 colors plus white, color wheel rotation effect, snap, blackout or dimmer fade at color changes
Variable CTC	
Zoom:	13 - 36°
Pan:	430°
Tilt:	300°
Adjustable pan/tilt and effects speed	

Specifications

OPTICS

Light source:	Luxeon Rebel high power emitters
Red:	621-637 nm
Green:	525-542 nm
Blue:	445-461 nm

CONTROL AND PROGRAMMING

Control options:	DMX, stand-alone, master/slave
Control resolution:	8- and 16-bit
DMX channels:	12/15/16/19
Setting and addressing:	Control panel with backlit graphic display
Protocol:	USITT DMX512/1990
Stand-alone memory:	20 scenes
Stand-alone and master/slave programming:	Control panel with backlit graphic display
Transceiver:	RS-485
Fixture software update:	MAC 301 Software Uploader device

CONSTRUCTION

Color:	Black
Housing:	High-impact flame-retardant thermoplastic
Protection rating:	IP20

INSTALLATION

Mounting points:	2 pairs of 1/4-turn locks
Orientation:	Any
Minimum distance to combustible materials:	100 mm (3.9 in.) from head, no minimum distance from base

CONNECTIONS

AC power input:	1.6 m (5.2 ft.) cable tail
DMX data in/out:	3-pin and 5-pin locking XLR

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Maximum total power consumption:	350 W
Power supply unit:	Auto-ranging electronic switch mode
Main fuse:	6.3 AT (slow blow)
Standby power:	<60 W

APPROVALS

EU safety:	EN 60598-2-17
EU EMC:	EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-4
US safety (US model):	UL 1573
Canadian safety (US model):	CAN/CSA C22.2 No. 166

INCLUDED ITEMS

Two Omega clamp attachment brackets with 1/4-turn fasteners for MAC 301:	P/N 91602015

ACCESSORIES

MAC 301 Software Uploader:	P/N 90758099
MAC 301 Diffusion Filter:	P/N 91611324
Quick trigger clamp:	P/N 91602007
Half-coupler clamp:	P/N 91602005
G-clamp:	P/N 91602003
Safety wire, universal, safe working load 50 kg (110.2 lbs.):	P/N 91604003
Four-unit flightcase for 4 x MAC 301:	P/N 91510021

ORDERING INFORMATION

MAC 301 Wash, US model, in cardboard box:	P/N 90218100
MAC 301 Wash, US model, in 4-unit flightcase:	P/N 90218101
MAC 301 Wash, EU model, in cardboard box:	P/N 90218000
MAC 301 Wash, EU model, in 4-unit flightcase:	P/N 90218001

MAC Aura™

The MAC Aura is the first compact LED moving head wash light with zoom that offers never-before-seen, eye-candy aura effects yet also functions as a highly capable single-lens wash with fully pre-mixed color. A ground-breaking optical system combines multicolor LEDs with backlight aura color mixing to produce an all new visual palette that takes the synthetic look out of LED for truly unique lighting designs.

Features

- Aura eye-candy effects
- Single-lens wash with fully pre-mixed color
- Broad color palette, RGBW color mixing
- Uniform shades
- Built-in FX engine
- 11 to 58° zoom
- 3850 lm output
- Rapid movement
- Compact, low weight design (5.6 kg)
- High efficiency, low power consumption, long lifetime

Specifications

PHYSICAL

Length:	302 mm (11.9 in.) across yoke
Width:	302 mm (11.9 in.) across yoke
Height:	360 mm (14.2 in.), head straight up
Weight:	5.6 kg (12.3 lbs.) without accessories

DYNAMIC EFFECTS

Beam color mixing:	RGBW
Aura (secondary lens array illumination) color mixing:	RGB
Beam color temperature control:	CTO, variable 10 000 - 2500 K
Beam and aura electronic 'color wheel' effect:	33 LEE-referenced colors plus white, variable-speed color-wheel rotation effect and random color
Beam and aura independent shutter effects:	Electronic, with regular and random pulse, burst and strobe effects
Pre-programmed effects:	Synchronized beam and aura macros
Electronic dimming:	Independent beam and aura, four dimming curve options
Pan/Tilt:	540°/ 232°
Pan and tilt speed:	Adjustable via onboard control panel and DMX

Specifications

OPTICS

Light source:	Osram Ostar high-power emitters
Minimum LED lifetime:	50 000 hours (to >70% luminous output)*

**Manufacturer's figure obtained under manufacturer's test conditions*

CONTROL AND PROGRAMMING

Control options:	Independent control of beam (primary output) and aura (secondary lens array illumination)
Macro programs selectable via DMX:	Synchronized beam and aura effects
Control:	DMX
RDM:	Implemented
Control resolution:	8-bit, with 16-bit control of pan & tilt
DMX channels:	19/25
Setting and addressing:	Control panel with backlit graphic display
Protocol:	USITT DMX512-A, ANSI/ESTA E1.20 RDM
Fixture software update:	Via DMX with Martin USB Duo DMX Interface

CONSTRUCTION

Color:	Black or white
Housing:	High-impact flame-retardant thermoplastic
Protection rating:	IP20

INSTALLATION

Mounting points:	One M12 threaded hole for rigging clamp
Location:	Indoor use only, must be fastened to surface or structure
Orientation:	Any

CONNECTIONS

AC power input:	Neutrik PowerCon
AC power throughput:	Neutrik PowerCon
DMX and RDM data in/out:	5-pin locking XLR

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Maximum total power consumption:	260 W
Power supply unit:	Auto-ranging electronic switch mode
Typical power consumption, all effects static, zero light output:	<15 W

APPROVALS

EU safety (pending):	EN 60598-2-17, EN 62471
EU EMC:	EN 55103-1, EN 55103-2, EN 55015, EN 61547
US safety:	UL 1573
US EMC:	FCC Part 15 Class A
Canadian safety:	CAN/CSA E598-2-17
Canadian EMC:	ICES-003 Class A
Australia/NZ:	C-TICK N4241

INCLUDED ITEMS

M12 bolt suitable for use with Martin rigging clamps

ACCESSORIES

Power cable, AWG12, SJT, with Neutrik PowerCon NAC3FCA input connector, 3 m:	P/N 11541503
Neutrik PowerCon NAC3FCA power input connector, cable mount, blue:	P/N 05342804
Neutrik PowerCon NAC3FCB power output connector, cable mount, light grey:	P/N 05342805
Power relay cable with PowerCon connectors, 1.4 m:	P/N 11850099
Power relay cable with PowerCon connectors, 2.25 m:	P/N 11850100
G-clamp:	P/N 91602003
Half-coupler clamp:	P/N 91602005
Safety wire, safe working load 50 kg (110.2 lbs.):	P/N 91604003
6-unit flightcase for MAC Aura:	P/N 91515020

ORDERING INFORMATION

MAC Aura in cardboard box:	P/N 90232000
MAC Aura in 6-unit flightcase:	P/N 90232010

MAC 350 Entour™

The MAC 350 Entour is a cutting-edge LED profile fixture with no peers. It surpasses what has previously been possible in terms of brightness, efficiency and compactness in a hard-edge LED fixture.

Features

- 7 extremely efficient high-power LEDs
- 8000 lm output sufficient to replace 575 watt HID fixtures
- Crisp and clean projection with no color artifacts
- 6 rotating and indexable gobos
- 8 interchangeable dichroic colors with split color effects and continuous rotation
- Motorized iris
- Motorized focus
- Full electronic dimming and strobing
- Compact, low weight design

Specifications

PHYSICAL

Length:	377 mm (14.8 in.) including handles
Width (Base):	220 mm (8.7 in.)
Height:	454 mm (17.9 in.), head horizontal
Height:	471 mm (18.5 in.), head straight up
Weight:	16.6 kg (36.6 lbs.)

DYNAMIC EFFECTS

Shutter effect:	Electronic, with regular and random pulse, burst and strobe effects
Electronic dimming:	0 - 100%, choice of four dimming curves
Color wheel:	8 interchangeable dichroic filters + open, full and split colors, music trig continuous rotation, random color
Rotating gobo wheel:	6 interchangeable gobos + open, indexing, continuous gobo rotation & scrolling, shake
Iris:	Motorized, with pulse and random effects
Focus:	2 m (6.6 ft.) to infinity
Pan:	630°
Tilt:	300°

Adjustable pan/tilt and effects speed

OPTICS

Light source:	7 x Luminus CBT-90 (50 W) LEDs
Minimum LED lifetime:	60 000 hours (to >70% luminous output)*

**LED Manufacturer´s figure obtained under manufacturer´s test condition*

Specifications

CONTROL AND PROGRAMMING

Control options:	DMX, stand-alone, synchronized (master/slave)
DMX channels:	14/17
Setting and addressing:	Control panel with LED display
Macro programs:	10 pan/tilt and 10 effects macros, all with staggered start/chase feature
Macro selection:	DMX or onboard control panel
Movement control options:	Tracking and vector
Protocol:	USITT DMX512/1990
Stand-alone memory:	100 scenes
Stand-alone and master/slave programming:	Control panel with LED display
Transceiver:	RS-485
Fixture software update:	Serial upload via DMX link
16-bit control:	Rotating gobo indexing, pan & tilt

CONSTRUCTION

Color:	Black
Housing:	UV-resistant fiber-reinforced composite and die-cast aluminum
Protection rating:	IP20

INSTALLATION

Mounting points:	2 pairs of 1/4-turn locks
Orientation:	Any
Minimum distance to combustible materials:	200 mm (7.9 in.)
Minimum distance to illuminated surfaces:	0.5 m (1.6 ft.)

CONNECTIONS

AC power input:	Neutrik PowerCon
DMX data in/out:	5-pin locking XLR

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Power supply unit:	Auto-ranging electronic switch mode
Main fuses:	10 AT (slow blow) x 2
Standby power:	Max. 49 W (idle mode, dimmed to zero)

APPROVALS

EU safety:	EN 60598-2-17, EN 62471, EN 62031, EN 61347-2-13
EU EMC:	EN 55015, EN 61547, EN 55103-1, EN 55103-2
US safety:	UL 1573
US EMC:	FCC Part 15 Class A
Canadian safety:	CAN/CSA-E598-2-17
Canadian EMC:	ICES-003 Class A
Australia/NZ:	C-TICK N4241

INCLUDED ITEMS

Two Omega clamp attachment brackets with 1/4-turn fasteners:	P/N 91602001
Two 10 AT main fuses (installed):	P/N 05021029

ACCESSORIES

Power cable, AWG12, SJT, with Neutrik PowerCon NAC3FCA input connector, 3 m (9.8 ft.):	P/N 11541503
Neutrik PowerCon NAC3FCA power input connector, cable mount, blue:	P/N 05342804
G-clamp:	P/N 91602003
Half-coupler clamp:	P/N 91602005
Quick trigger clamp:	P/N 91602007
T-shaped omega bracket with quarter-turn fasteners:	P/N 91602008
Omega bracket:	P/N 91602001
Safety wire, universal, safe working load 50 kg (110.2 lbs.):	P/N 91604003
Four-unit flightcase for 4 x MAC 350:	P/N 91510160

ORDERING INFORMATION

MAC 350 Entour, black, in cardboard box:	P/N 90231400

MAC 700 Profile™

The MAC 700 Profile is a compact, powerful fixture with an output and optical precision beyond its peers. It combines a full CMY color mixing system with an 8-position color wheel and a patented gobo animation system for subtle or dramatic effects. It also features rotating gobos, fixed gobos, iris, zoom system and rotating prism.

Features

- 700 W short arc discharge lamp
- Total output up to 14700 lumens
- CMY color mixing system
- 8-position color wheel plus open
- Motorized zoom and focus
- Mechanical dimming
- Gobo animation wheel with full movement / direction control
- 6 indexable rotating gobos plus open
- 9 static gobos plus open
- Interchangeable 3-facet rotating prism
- Motorized iris
- Rapid strobe effects (up to 10 Hz)
- Pan and tilt range of 540°/246°
- Variable fan control for quieter operation
- Electronic ballast with hot lamp restrike and flicker free light

Specifications

PHYSICAL	
Length:	450 mm (17.7 in.)
Width:	365 mm (14.4 in.)
Height:	636 mm (25.0 in.), head straight up
Weight:	34.5 kg (76.1 lbs.)
LAMP	
Type:	700 W short arc discharge
Fitted as standard:	Osram HTI 700/D4/75
Color temperature:	7500 K
CRI (Color rendering index):	>85
Average lifetime:	750 hours
Hot restrike:	Yes
Socket:	Double-ended SFc 10-4 with key
Ballast:	Electronic
Approved alternative lamp(s):	Philips MSR Gold 700 SA/2 DE, GE CSR 700 S/DE/72, Sylvania BA 700/2 DE S 7,5

Specifications

DYNAMIC EFFECTS	
Color mixing:	CMY, independently variable 0 - 100%
Color wheel:	8 interchangeable dichroic filters (6 colors and 2 CTC) + open, indexing, continuous rotation, random color
Rotating gobo wheel:	6 interchangeable gobos + open, indexing, cont. gobo rotation & scrolling, shake
Static gobo wheel:	9 interchangeable gobos + open, indexing, cont. rotation, random gobo
Gobo animation:	Interchangeable animation wheel, indexing, cont. rotation with variable angle, speed and direction
Prism:	Interchangeable 3-facet rotating prism
Iris:	0 - 100%, pulse effects
Mechanical dimmer:	0 - 100%
Shutter:	Strobe effect 2 - 10 Hz, pulse effects, instant open and blackout
Focus:	2 m (6.6 ft.) to infinity
Zoom:	16° - 31°, cut-off angles, with diffuser installed
Pan/tilt:	540°/246°
CONTROL AND PROGRAMMING	
DMX channels:	23/31
Setting and addressing:	Control panel with LED display
16-bit control:	CMY, color wheel, rotating gobos, gobo animation, mechanical dimmer, focus, zoom, pan & tilt
Movement control options:	Tracking and vector
Protocol:	USITT DMX512/1990
Receiver:	Opto-isolated RS-485
Firmware update:	Serial upload via DMX link
CONSTRUCTION	
Color(s):	Black
Housing:	UV-resistant fiber-reinforced composite
Reflector:	Glass, cold light
Protection rating:	IP 20
GOBOS	
Outside diameter:	27.9 mm (1.1 in.) +0/- 0.3 mm (0.01 in.)
Maximum image diameter:	23 mm (0.9 in.)
Maximum thickness:	1.1 mm (0.04 in.) in static slots, 4 mm (0.2 in.) in rotating slots
Recommended glass:	High-temperature Borofloat or better with dichroic or enhanced aluminum coating
Recommended metal:	0.5 mm (0.02 in.) aluminum
INSTALLATION	
Mounting points:	2 pairs of 1/4-turn locks
Orientation:	Any
ELECTRICAL	
AC power:	100-120/208-240 V nominal, 50/60 Hz
Power supply unit:	Auto-ranging electronic switch-mode
Main fuse (100-120 V power):	15 AT (slow blow)
Main fuse (208-240 V power):	10 AT (slow blow)
APPROVALS	
EU safety:	EN 60598-2-17
EU EMC:	EN 55015, EN 55103-1, EN 61547
US safety:	UL 1573
Canadian safety:	CAN/CSA C22.2 No. 166
INCLUDED ITEMS	
Osram HTI 700/D4/75 lamp (installed):	P/N 97010212
Radial breakup gobo animation wheel (installed):	P/N 62325048
5 extra metal gobos and extra spring	
10 AT main fuse (installed):	P/N 05020025
15 AT main fuse (installed):	P/N 05020027
Two Omega clamp brackets with 1/4-turn fasteners:	P/N 91602001

MAC 700 Profile™

Specifications

ACCESSORIES

Philips MSR Gold 700 SA/2 DE lamp:	P/N 97010312
GE CSR700/S/DE/60 lamp:	P/N 97010240
Spiral breakup gobo animation wheel:	P/N 62325049
Linear breakup gobo animation wheel:	P/N 62325050
Coarse tangential gobo animation wheel:	P/N 62325051
Cloud breakup gobo animation wheel:	P/N 62325094
Elliptical breakup gobo animation wheel:	P/N 62325095
Wash filter for MAC 700 Profile: P/N 91614028G-clamp:	P/N 91602003
Half-coupler clamp:	P/N 91602005
Quick trigger clamp:	P/N 91602007
T-shaped omega bracket with quarter-turn fasteners:	P/N 91602008
Double flightcase, MAC 550 Profile, MAC 700 Wash, MAC 700 Profile:	P/N 91510020

ORDERING INFORMATION

MAC 700 Profile in cardboard box:	P/N 90207000
MAC 700 Profile in single flightcase:	P/N 90207001

MAC 700 Wash™

The MAC 700 Wash is an exceptionally powerful wash light with a clean, even, soft-edged beam, a motorized zoom, indexable beamshaper and rich CMY color mixing.

Features

- 700 W short arc discharge lamp
- Total output up to 18700 lumens
- CMY color mixing system
- 8-position color wheel plus open
- Variable CTC
- Motorized zoom
- Mechanical dimming
- Indexing & rotating beam shaper
- Strobe effect 2-10 Hz, random strobe, pulse effects
- Pan and tilt range of 540°/246°
- Variable fan control for quieter operation
- Electronic ballast with hot lamp restrike and flicker free light

Specifications

PHYSICAL

Length:	450 mm (17.7 in.)
Width:	365 mm (14.4 in.)
Height:	656 mm (25.8 in.), head straight up
Weight:	32 kg (70.5 lbs.)

LAMP

Type:	700 W short arc discharge
Fitted as standard:	Osram HTI 700/D4/75
Color temperature:	7500 K
CRI (Color rendering index):	>85
Average lifetime:	750 hours
Hot restrike:	Yes
Socket:	Double-ended SFc 10-4 with key
Ballast:	Electronic
Approved alternative lamp(s):	Philips MSR Gold 700 SA/2 DE, GE CSR 700 S/DE/72, Sylvania BA 700/2 DE S 7,5

MAC 700 Wash™

Specifications

DYNAMIC EFFECTS

Color mixing:	CMY, independently variable 0 - 100%
Color wheel:	8 interchangeable filters (5 colors, UV, half minus green, CTC) + open
Color temperature control:	0 - 100%
Mechanical dimmer:	0 - 100%
Shutter:	Strobe effect 2 - 10 Hz, random strobe, pulse effects
Beamshaper:	0° - 360° indexable, continuous rotation
Zoom:	12.5° - 66°, 1/10 peak angles
Pan/tilt:	540°/246°

OPTICS

Beam angle:	Narrow 14.5° - 27°, Standard 20° - 41°, Very wide 97° - 105°, 1/10 peak angles, 80 V lamp

CONTROL AND PROGRAMMING

DMX channels:	16/23
Setting and addressing:	Control panel with LED display
16-bit control:	CMY, CTC, color wheel, mechanical dimmer, zoom, pan & tilt
Movement control options:	Tracking and vector
Protocol:	USITT DMX512/1990
Receiver:	Opto-isolated RS 485
Firmware update:	Serial upload via DMX link

CONSTRUCTION

Color(s):	Black
Housing:	UV-resistant fiber-reinforced composite
Reflector:	Glass, cold light
Protection rating:	IP 20

INSTALLATION

Mounting points:	2 pairs of 1/4-turn locks
Orientation:	Any

ELECTRICAL

AC power:	100-120/208-240 V nominal, 50/60 Hz
Power supply unit:	Auto-ranging electronic switch-mode
Main fuse (100-120 V power):	15 AT (slow blow)
Main fuse (208-240 V power):	10 AT (slow blow)

APPROVALS

EU safety:	EN 60598-2-17
EU EMC:	EN 55015, EN 55103-1, EN 61547
US safety:	UL 1573
Canadian safety:	CAN/CSA C22.2 No. 166

INCLUDED ITEMS

Osram HTI 700/D4/75 lamp (installed):	P/N 97010212
10 AT main fuse (installed):	P/N 05020025
15 AT main fuse:	P/N 05020027
Two Omega brackets with 1/4-turn fasteners:	P/N 91602001

ACCESSORIES

Philips MSR Gold 700 SA/2 DE lamp:	P/N 97010312
GE CSR700/S/DE/60 lamp:	P/N 97010240
Frost filter:	P/N 91611263
T-shaped omega bracket with quarter-turn fasteners:	P/N 91602008
G-clamp:	P/N 91602003
Half-coupler clamp:	P/N 91602005
Quick trigger clamp:	P/N 91602007
Super Truss 20.5" mounting plate with half-couplers:	P/N 91602014
Swing-wing truss mounting plate with half-couplers:	P/N 91602010
Double flightcase, MAC 550 Profile, MAC 700 Wash, MAC 700 Profile:	P/N 91510020

ORDERING INFORMATION

MAC 700 Wash in cardboard box:	P/N 90207400
MAC 700 Wash in single flightcase:	P/N 90207401

MAC TW1™

The MAC TW1 is a powerful yet silent tungsten wash light with a clean, even, soft-edged beam, motorized zoom, and exceptionally rich CMY color mixing. It can be run from the built-in dimmer or from an external dimmer.

Features

- 1200 W tungsten halogen lamp
- Total output up to 14200 lumens
- CMY color mixing system
- Motorized zoom
- Fresnel (included), narrow, and multi array
- Internal & external electronic dimming plus mechanical dimming
- Rapid stobe effects (up to 10 Hz)
- Patented very low-noise cooling
- Various front accessories for theatre, television and film applications
- 80 V dimmer for universal operating voltage

Specifications

PHYSICAL

Length:	454 mm (17.9 in.)
Width:	362 mm (14.3 in.)
Height:	709 mm (27.9 in.), head straight up
Weight:	26.8 kg (59.1 lbs.), IGBT dimmer model
Weight:	27.4 kg (60.4 lbs.), 80 V dimmer model

LAMP

Type:	1200 W tungsten halogen
Approved lamps:	Philips 1200/115, 1200/230 or 1200/240 FastFit, Philips Hi-Brite 1200/80 FastFit
Socket:	PGJX-50

Lamp voltage must match internal or external dimmer output voltage

DYNAMIC EFFECTS

Color mixing:	CMY, independently variable 0 - 100%
Electronic dimming:	Multi-voltage IGBT and 80 V internal dimmer options, 'plug and play' external dimming
Mechanical dimmer:	0 - 100%
Shutter:	Strobe effect up to 10 Hz, random strobe
Zoom:	Narrow 14.5° - 27°, Standard 20° - 41°, Very wide 97° - 105°, 1/10 peak angles, 80 V lamp
Pan/tilt:	540°/242°

MAC Viper Profile™

The MAC Viper Profile is a new breed of high-output profile luminaire with an exceptional feature set and highly efficient optical system that outperforms market-leading profiles in the 1200-watt range. Its 1000-watt HID source is convincingly brighter than 1200-watt fixtures and the MAC Viper Profile also outperforms them in terms of speed and compactness. Power consumption is lower and output is approximately 50% more efficient.

Features

- 26000 lumens: Excellent light quality with a very flat and uniform field
- 1:5 zoom: Fast zoom with auto-linked focus
- Fat beam front lens: 140 mm front lens exceeds the size of any other fixture in this segment for just the right fat beam look
- 5 + 5 rotating gobos: All glass gobos with optimal focal separation for superior morphing effects
- FX wheel: Patent-pending FX wheel provides an additional 4 fixed gobos and 135° animation effect
- CMY: Vibrant color mixing with a superior palette of colors including true reds, rich ambers, primary green and deep blues
- 8-slot color wheel: Fixed colors for added color choice
- Linear CTO: Daylight to tungsten CCT control and expansion of the CMY palette
- Dimmer and shutter: Combined dimmer/shutter system with intensity effects, instant blackout/open and smooth fades
- Iris: Fast and tight iris with adjustable dynamic effects
- Strobe: Diverse strobe effects using mechanical or electronic control or in combination
- Soft frost: A light frost leaves gobo artwork visible with a beautiful soft edge. Includes a linear focus blurring option
- 4-facet prism: Real beam separation with rotation and index control for dynamic effects and accurate tiling

Specifications

CONTROL AND PROGRAMMING

DMX channels:	14/20
Setting and addressing:	Control panel with display
16-bit control:	CMY, mechanical dimmer, electronic dimmer, zoom, pan & tilt
Movement control options:	Tracking and vector
Dimming curve options:	Various available
Protocol:	USITT DMX512-A
Receiver:	Opto-isolated RS-485
Firmware update:	Serial upload via DMX link

DIMMING SYSTEM OPTIONS

Internal multi-voltage IGBT dimmer:	0 - 100%, 8- or 16-bit dimming resolution, controlled via DMX
Internal 80 V dimmer:	0 - 100%, 8- or 16-bit dimming resolution, controlled via DMX
External dimmer input:	Intelligent lamp power control

CONSTRUCTION

Housing:	Black, Magnesium alloy, UV-resistant fiber-reinforced composite
Reflector:	Glass, cold light
Protection rating:	IP 20

INSTALLATION

Orientation:	Any
Mounting points:	2 pairs of 1/4-turn locks

ELECTRICAL

AC power:	100-120/200-240 V nominal, 50/60 Hz
Power supply unit:	Auto-ranging electronic switch-mode
Main fuse:	20 AT (slow blow)

ACOUSTIC

Sound power level:	31 dBA (steady state, lamp on, effects static, Ta=20°C (68° F), test conditions ISO 3743-2:1994)

APPROVALS

EU safety:	EN 60598-2-17
EU EMC:	EN 55015, EN 55103-1, EN 61547
US safety:	UL 1573
Canadian safety:	CAN/CSA E598-2-17

INCLUDED ITEMS

Two Omega brackets with 1/4-turn fasteners:	P/N 91602001
Four 20 AT main fuses (installed):	P/N 05020051

ACCESSORIES

Very wide angle lens kit:	P/N 91610032
Narrow angle lens kit:	P/N 91610033
Front accessory holder:	P/N 91611260
Internal 80 V dimmer:	P/N 91614026
Flightcase (holds 2 fixtures):	P/N 91510019
Philips Hi-Brite 1200/80 FastFit 80 V lamp:	P/N 97000006
Philips 1200/115 FastFit 115 V lamp:	P/N 97000112
Philips 1200/230 FastFit 230 V lamp:	P/N 97000113
Philips 1200/240 FastFit 240 V lamp:	P/N 97000114
Gel frame, top hat, top hat with louver	*See www.citytheatrical.com*
Half-coupler clamp:	P/N 91602005
G-clamp:	P/N 91602003
Omega bracket:	P/N 91602001
T-shaped omega bracket with quarter-turn fasteners:	P/N 91602008
Safety wire, universal, safe working load 50 kg (110.2 lbs.):	P/N 91604003

ORDERING INFORMATION

MAC TW1, Multi-voltage, 80 V dimmer in cardboard box:	P/N 90202400
MAC TW1, Multi-voltage, 80 V dimmer, 2-unit flightcase:	P/N 90202401

MAC Viper Profile™

Specifications

PHYSICAL

Length (Head):	566 mm (22.3 in.)
Width:	472 mm (18.6 in.)
Width (Base):	335 mm (13.2 in.)
Height (head straight up):	731 mm (28.8 in.)
Height (maximum):	748 mm (29.4 in.)
Weight:	36 kg (79.4 lbs.)

LAMP

Approved lamp:	Osram HTI 1000/PS Lok-it
Type:	1000 W short-arc discharge
Color temperature:	6000 K
CRI (Color rendering index):	>85
Average lifetime:	750 hours
Socket:	PGJ28 Lok-it
Ballast:	Electronic

DYNAMIC EFFECTS

Color mixing:	CMY, independently variable 0 - 100%
Color temperature control:	CTO, variable 6000 - 3200 K
Color wheel:	8 interchangeable dichroic filters + open, indexing, continuous rotation, random color
Aerial wheel:	5 interchangeable aerial effects + open, indexing, continuous rotation and shake
Breakup wheel:	5 interchangeable texture/breakup gobos + open, indexing, continuous rotation and shake
FX wheel:	Interchangeable static gobo and gobo animation effects
Prism:	Interchangeable 4-facet rotating prism
Iris:	0 - 100%, pulse effects
Frost:	Frost filter
Mechanical dimmer/shutter:	0 - 100% continuous dimming, variable & random strobe & pulse effects, instant open & blackout
Dimming options:	Choice of four dimming curves
Focus:	Range varies with zoom angle, from 2 m (6.6 ft.) / 6 m (19.7 ft.) to infinity (approx.)
Zoom:	10° - 44°
Zoom-focus linking system:	3-zone
Pan:	540°
Tilt:	268°
Position correction system:	Absolute position monitoring

CONTROL AND PROGRAMMING

DMX channels:	26/34
Setting and addressing:	Control panel with backlit graphic display and jog wheel or via DMX
16-bit control:	Aerial, breakup and texture effect rotation and indexing, focus, zoom, pan and tilt
DMX compliance:	USITT DMX512-A
RDM compliance:	ANSI/ESTA E1.20
Receiver:	Opto-isolated RS-485
Firmware update:	USB memory device or USB/DMX hardware interface over DMX link

SERVICE UTILITIES

Fixture identification:	User-settable fixture ID number

CONSTRUCTION

Color(s):	Black
Housing:	UV-resistant fiber-reinforced composite
Reflector:	Glass, cold light
Protection rating:	IP20

INSTALLATION

Mounting points:	Eight quarter-turn locking points
Orientation:	Any
Minimum distance to illuminated surfaces:	1.6 m (5.2 ft.)
Minimum distance to combustible materials:	0.3 m (1.0 ft.)

CONNECTIONS

AC power input:	Neutrik PowerCon
DMX and RDM data in/out:	5-pin locking XLR
USB memory devices:	USB host socket

ELECTRICAL

AC power:	120-240 V nominal, 50/60 Hz
Power supply unit:	Auto-ranging electronic switch-mode
Typical half-cycle RMS inrush current:	16.2 A

TYPICAL POWER AND CURRENT

120 V, 60 Hz:	1225 W, 10.3 A, PF 0.999
208 V, 60 Hz:	1190 W, 5.8 A, PF 0.996
230 V, 50 Hz:	1186 W, 5.2 A, PF 0.994
240 V, 50 Hz:	1194 W, 5.0 A, PF 0.993

Measurements made at nominal voltage. Allow for a deviation of +/- 10%. PF = power factor

THERMAL

Cooling:	Filtered forced air (temperature-regulated, low noise)
Maximum ambient temperature (Ta max.):	40° C (104° F)
Minimum ambient temperature (Ta min.):	5° C (41° F)
Maximum surface temperature, steady state, Ta=40° C (104° F):	150° C (302° F)
Total heat dissipation (calculated, +/- 10% at 120 V, 60 Hz):	4180 BTU/hr

APPROVALS

EU safety:	EN 60598-2-17 (EN 60598-1), EN 62471
EU EMC:	EN 55015, EN 55103-1, EN 55103-2, EN 61547
US safety:	UL 1573
US EMC:	FCC Part 15 Class A
Canadian safety:	CSA E598-2-17 (CSA E60598-1)
Canadian EMC:	ICES-003 Class A
Australia/NZ:	C-TICK N4241

INCLUDED ITEMS

Lamp (installed):	P/N 97010346
Two Omega clamp attachment brackets with 1/4-turn fasteners:	P/N 91602001
Safety and installation manual:	P/N 35000258

ACCESSORIES

Power cable, AWG12, SJT, with Neutrik PowerCon NAC3FCA input connector, 3 m (9.8 ft.):	P/N 11541503
Neutrik PowerCon NAC3FCA power input connector, cable mount, blue:	P/N 05342804
Omega clamp attachment bracket with 1/4-turn fasteners:	P/N 91602001
T-shaped omega clamp attachment bracket with 1/4-turn fasteners:	P/N 91602008
Half-coupler clamp:	P/N 91602005
G-clamp (suspension with yoke vertically downwards only):	P/N 91602003
Quick-trigger clamp (suspension with yoke vertically downwards only):	P/N 91602007
Safety wire, safe working load 50 kg (110.2 lbs.):	P/N 91604003
Flightcase for 2 x MAC Viper:	P/N 91510180

RELATED ITEMS

Martin USB Duo DMX Interface Box:	P/N 90703010

SPARE PARTS

Replacement lamp:	P/N 97010346
Head air filter	

ORDERING INFORMATION

MAC Viper Profile in cardboard box:	P/N 90233000
MAC Viper Profile in double flightcase:	P/N 90233010

MAC III Profile™

The MAC III Profile offers a perfect balance between a superior feature list and ultimate performance. This high-output profile combines advanced 1500-watt lamp technology with superb optical efficiency, an innovative design and great feel to take moving head performance to a higher level.

Features

- 1500 W short arc discharge lamp with Lok-it!" base
- CMY plus variable CTO with non-fade coating technology
- 7-position color wheel plus open
- 2 x 5 indexable rotating gobos plus open
- 1:5 zoom with focus tracking
- Completely uniform dimming plus mechanical shutter for total blackout
- Interchangeable 4-facet rotating and indexable prism
- Motorized iris
- Mechanical and electronic strobe effect 2 - 10 Hz, pulse effects, instant open and blackout
- Gobo animation wheel with full movement / direction control
- Pan and tilt (540°/267°) with absolute positioning control
- Patented very low-noise cooling. Quietest fixture in its class
- Modular design for easy maintenance, servicing and product conversion
- Electronic ballast, fast lamp re-strike and flicker free light
- RDM ready, service USB and Art-Net II prepared
- Battery-powered TFT display and jog wheel navigation
- Easy conversion between a profile and performance - no need to invest in two separate fixtures

Specifications

PHYSICAL

Length (Head):	712 mm
Width:	536 mm
Height:	936 mm
Weight:	53.5 kg

LAMP

Type:	1500 W short-arc discharge
Fitted as standard:	Osram HTI 1500W/60/P50
Color temperature:	6000 K
CRI (Color rendering index):	>85
Average lifetime:	750 hours
Hot restrike:	Semi-hot (restrike in under 90 seconds)
Socket:	PGJ50
Ballast:	Electronic

DYNAMIC EFFECTS

Color mixing:	CMY, independently variable 0 - 100%
Color temperature control:	CTO, variable 6000 - 3200 K
Color wheel:	7 interchangeable dichroic filters + open, indexing, continuous rotation, random color
Rotating gobo wheel:	Two rotating gobo wheels, each with 5 interchangeable rotating gobos + open, gobo indexing, continuous rotation and shake
Gobo animation:	Interchangeable animation wheel, indexing, continuous rotation with variable angle, speed and direction
Prism:	Interchangeable 4-facet rotating prism
Iris:	0 - 100%, pulse effects
Mechanical dimmer:	0 - 100%, choice of four dimming curves
Mechanical shutter:	Strobe effect 2 - 10 Hz, pulse effects, instant open and blackout
Focus:	2 m to infinity
Zoom:	Motorized
Zoom-focus linking system:	3-zone
Pan:	540°
Tilt:	268°
Position correction system:	Absolute position monitoring

CONTROL AND PROGRAMMING

DMX channels:	27/30
Setting and addressing:	Control panel with backlit graphic display and jog wheel or via DMX
16-bit control:	Dimmer, gobo indexing (gobo wheels 1 and 2), focus, zoom, pan and tilt
Protocol:	USITT DMX512-A, RDM
Receiver:	Opto-isolated RS-485
Firmware update:	USB memory device and remote via DMX link

CONSTRUCTION

Color(s):	Black
Housing:	Magnesium alloy, UV-resistant fibre-reinforced composite
Reflector:	Glass, cold light
Protection rating:	IP20

GOBOS

Size:	E
Approved material:	Borosilicate 3.3 or better with dichroic or heavy matted aluminum coating (metal gobos not approved)
Outside diameter:	37.5 mm +0/- 0.2 mm
Maximum image diameter:	30 mm +/- 0.4 mm
Maximum thickness:	1.1 mm +/- 0.1 mm

GOBO ANIMATION WHEEL

Outside diameter:	133.9 mm (5.3 in.) +/- 0.1 mm (0.004 in.)
Image outer diameter:	130 mm (5.1 in.)
Image inner diameter:	32 mm (1.3 in.)
Thickness:	1.1 mm (0.04 in.) +/- 0.1 mm (0.004 in.)
Construction:	Borofloat or better with dichroic or enhanced aluminium coating

MAC III Profile™

Specifications

INSTALLATION	
Mounting points:	2 pairs of 1/4-turn locks
Orientation:	Any
Minimum distance to illuminated surfaces:	2.5 m (8.2 ft.)
Minimum distance to combustible materials:	0.2 m (0.7 ft.)
CONNECTIONS	
AC power input:	Neutrik PowerCon connector with 3 m cable tail
DMX and RDM data in/out:	5-pin locking XLR
Ethernet (Artnet II compatible, ACN-ready):	Neutrik RJ-45 socket (accepts Neutrik EtherCon connectors in housing)
USB memory devices:	USB host socket
Future USB options:	USB device socket
ELECTRICAL	
AC power:	200-240 V nominal, 50/60 Hz
Power supply unit:	Auto-ranging electronic switch-mode
Main fuses:	16 AT (x 2)
THERMAL	
Cooling:	Filtered forced air (temperature-regulated, low noise)
Maximum ambient temperature (Ta max.):	40° C (104° F)
Maximum surface temperature, steady state, Ta=40° C:	170° C (338° F)
Total heat dissipation (calculated, +/- 10% at 200 V, 60 Hz):	6160 BTU/hr
APPROVALS	
EU safety:	EN 60598-2-17
EU EMC:	EN 55015, EN 55103-1, EN 61547
US safety:	UL 1573
Canadian safety:	CAN/CSA E598-2-17
INCLUDED ITEMS	
Osram HTI 1500W/60/P50 lamp (installed):	P/N 97010326
Tribal waves gobo animation wheel (installed):	P/N 62325143
Two Omega clamp attachment brackets with 1/4-turn fasteners:	P/N 91602001
ACCESSORIES	
3 m power cable, 12 AWG, SJT, with PowerCon NAC3FCA power input connector:	P/N 11541503
Neutrik PowerCon NAC3FCA power input connector, cable mount, blue:	P/N05342804
Philips MSR Gold 1500 Fastfit lamp	P/N 97010340
Omega clamp attachment bracket with 1/4-turn fasteners:	P/N 91602001
T-shaped omega clamp attachment bracket with 1/4-turn fasteners:	P/N 91602008
Half-coupler clamp	P/N 91602005
G-clamp (suspension with yoke vertically downwards only):	P/N 91602003
Quick-trigger clamp (suspension with yoke vertically downwards only):	P/N 91602007
Swing-wing mounting plate (with half-couplers):	P/N 91602010
Super Truss 20.5" mounting plate with half-couplers	P/N 91602014
Safety wire, SWL 70 kg (154 lb.)	P/N 91604004
MAC III Framing Module Kit (converts Profile to Performance)	P/N 91614032
ORDERING INFORMATION	
MAC III Profile in cardboard box:	P/N 90206000
MAC III Profile in single flightcase:	P/N 90206001

MAC III Performance™

The MAC III Performance is a high-output profile moving head with a new interleaved framing system with full crossover of each blade and industry-first continuous rotation for new and unlimited projection, framing and effects possibilities. It is available as a stand-alone fixture or as an easy-to-swap module that installs in minutes on any MAC III Profile.

Features

- 1500 W short arc discharge lamp with Lok-it!" base
- CMY color mixing system
- 7-position color wheel plus open
- Variable CTO
- 5 indexable rotating gobos
- Framing of focused gobo
- Uniform dimming plus mechanical shutter for total blackout
- 1:5 zoom with focus tracking
- Gobo animation wheel with full movement / direction control
- Continuous rotation, full blade crossover framing with uniform focus of each blade
- Motorized iris
- Mechanical and electronic strobe effect 2 - 10 Hz, pulse effects, instant open and blackout
- Patented very low-noise cooling. Quietest fixture in its class
- Modular design for easy maintenance, servicing and product conversion
- Easy conversion between a profile and performance - no need to invest in two separate fixtures
- Electronic ballast, fast lamp re-strike and flicker free light
- Pan and tilt (540°/267°) with absolute positioning control
- RDM ready, service USB and Art-Net II prepared
- Battery-powered TFT display and jog wheel navigation

MAC III Performance™

Specifications

PHYSICAL

Length (Head):	712 mm (28.0 in.)
Width:	536 mm (21.1 in.)
Height:	936 mm (36.9 in.)
Weight:	54.9 kg (121.0 lbs.)

LAMP

Type:	1500 W short-arc discharge
Fitted as standard:	Osram HTI 1500W/60/P50
Color temperature:	6000 K
CRI (Color rendering index):	>85
Average lifetime:	750 hours
Hot restrike:	Semi-hot (restrike in under 90 seconds)
Socket:	PGJ50
Ballast:	Electronic

DYNAMIC EFFECTS

Color mixing:	CMY, independently variable 0 - 100%
Color temperature control:	CTO, variable 6000 - 3200 K
Color wheel:	7 interchangeable dichroic filters + open, indexing, continuous rotation, random color
Rotating gobo wheel:	Rotating gobo wheel with 5 interchangeable rotating gobos + open, gobo indexing, continuous rotation and shake
Rotating framing module:	Continuously rotating framing module, can frame and morph between squares, parallelograms and triangles or give complete blackout with one frame
Gobo animation:	Interchangeable animation wheel, indexing, continuous rotation with variable angle, speed and direction
Frost:	Fixed and interchangeable
Iris:	0 - 100%, pulse effects
Mechanical dimmer:	0 - 100%, choice of four dimming curves
Mechanical shutter:	Strobe effect 2 - 10 Hz, pulse effects, instant open and blackout
Focus:	2 m (6.6 ft.) to infinity
Zoom:	Motorized
Zoom-focus linking system:	3-zone
Pan:	540°
Tilt:	268°
Position correction system:	Absolute position monitoring

CONTROL AND PROGRAMMING

DMX channels:	33/40
Setting and addressing:	Control panel with backlit graphic display and jog wheel or via DMX
16-bit control:	Dimmer, gobo indexing (gobo wheel 1), frame rotation, focus, zoom, pan and tilt
Protocol:	USITT DMX512-A, RDM
Receiver:	Opto-isolated RS-485
Firmware update:	USB memory device or USB/DMX hardware interface over DMX link

CONSTRUCTION

Color(s):	Black
Housing:	Magnesium alloy, UV-resistant fiber-reinforced composite
Reflector:	Glass, cold light
Protection rating:	IP20

GOBOS

Size:	E
Approved material:	Borosilicate 3.3 or better with dichroic or heavy matted aluminum coating
Approved material:	(metal gobos not approved)
Outside diameter:	37.5 mm (1.5 in.) +0/- 0.2 mm (0.01 in.)
Maximum image diameter:	30 mm (1.2 in.) +/- 0.4 mm (0.02 in.)
Maximum thickness:	1.1 mm (0.04 in.) +/- 0.1 mm (0.004 in.)

GOBO ANIMATION WHEEL

Outside diameter:	133.9 mm (5.3 in.) +/- 0.1 mm (0.004 in.)
Image outer diameter:	130 mm (5.1 in.)
Image inner diameter:	32 mm (1.3 in.)
Thickness:	1.1 mm (0.04 in.) +/- 0.1 mm (0.004 in.)
Construction:	Borofloat or better with dichroic or enhanced aluminum coating

INSTALLATION

Mounting points:	2 pairs of 1/4-turn locks
Orientation:	Any
Minimum distance to illuminated surfaces:	2.5 m (8.2 ft.)
Minimum distance to combustible materials:	0.2 m (0.7 ft.)

CONNECTIONS

AC power input:	Neutrik PowerCon connector with 3 m (9.8 ft.) cable tail
DMX and RDM data in/out:	5-pin locking XLR
Ethernet (Artnet II compatible, ACN-ready):	Neutrik RJ-45 socket (accepts Neutrik EtherCon connectors in housing)
USB memory devices:	USB host socket
Future USB options:	USB device socket

ELECTRICAL

AC power:	200-240 V nominal, 50/60 Hz
Power supply unit:	Auto-ranging electronic switch-mode
Main fuses:	16 AT (x 2)

THERMAL

Cooling:	Filtered forced air (temperature-regulated, low noise)
Maximum ambient temperature (Ta max.):	40° C (104° F)
Maximum surface temperature, steady state, Ta=40° C (104° F):	170° C (338° F)
Total heat dissipation (calculated, +/- 10% at 200 V, 60 Hz):	6160 BTU/hr

APPROVALS

EU safety:	EN 60598-2-17
EU EMC:	EN 55015, EN 55103-1, EN 61547
US safety:	UL 1573
Canadian safety:	CAN/CSA E598-2-17

INCLUDED ITEMS

Osram HTI 1500W/60/P50 lamp (installed):	P/N 97010347
MAC III Performance Module (installed)	
Tribal waves gobo animation wheel (installed):	P/N 62325143
Two Omega clamp attachment brackets with 1/4-turn fasteners:	P/N 91602001

ACCESSORIES

3 m power cable, 12 AWG, SJT, with PowerCon NAC3FCA power input connector:	P/N 11541503
Neutrik PowerCon NAC3FCA power input connector, cable mount, blue:	P/N05342804
Philips MSR Gold 1500 Fastfit lamp:	P/N 97010340
Four-facet prism in holder:	P/N 62329120
Omega clamp attachment bracket with 1/4-turn fasteners:	P/N 91602001
T-shaped omega clamp attachment bracket with 1/4-turn fasteners:	P/N 91602008
Half-coupler clamp:	P/N 91602005
G-clamp (suspension with yoke vertically downwards only):	P/N 91602003
Quick-trigger clamp (suspension with yoke vertically downwards only):	P/N 91602007
Swing-wing mounting plate with half-couplers:	P/N 91602010
Super Truss 20.5" mounting plate with half-couplers:	P/N 91602014
Safety wire, SWL 70 kg (154 lb.)	P/N 91604004
MAC III Projection Module Kit (converts Performance to Profile)	P/N 91614033

ORDERING INFORMATION

MAC III Performance in cardboard box:	P/N 90206200
MAC III Performance in single flightcase:	P/N 90206210

MAC III AirFX™

The MAC III AirFX is a highly versatile, mid-air effects luminaire in Martin's 1500-watt MAC III family. Capable of projecting a dense, hard-edge beam with stunning mid-air aerial effects, the fixture's unique optical system allows it to adjust from a tight beam to a radiant wash instantly for greater design flexibility.

Beam gobo projections can adjust along the entire zoom range for a refreshingly diverse variety of mid-air looks. And unlike other fixtures, light output is constant throughout the entire zoom range with a fully linear zoom that gives no visible beam jump from tight to wide.

Super bright, the MAC III AirFX is powerful enough to cut through light from even the most powerful LED screens.

Features

- Beam, mid-air effects and wash luminaire in one
- CMY color mixing plus color wheel
- Variable CTO
- 1:5 linear zoom with no lumen drop or internal lens changes
- Zoom with linked focus on all aerial effects
- Fat beam
- 9" clear, precision PC lens with less spill than micro-Fresnels
- Optional Fresnel lens
- Aerial effects: rotating and replaceable
- Iris / Dimmer / Shutter

Specifications

PHYSICAL	
Length (Head):	712 mm (28.0 in.)
Width:	536 mm (21.1 in.)
Height:	936 mm (36.9 in.)
Weight:	54.9 kg (121.0 lbs.)
LAMP	
Type:	1500 W short-arc discharge
Color temperature:	6000 K
CRI (Color rendering index):	>85
Average lifetime:	750 hours
Hot restrike:	Semi-hot (restrike in under 90 seconds)
Socket:	PGJ50
Ballast:	Electronic
DYNAMIC EFFECTS	
Color mixing:	CMY, independently variable 0 - 100%
Color temperature control:	CTO, variable 6000 - 3200 K
Color wheel:	7 interchangeable dichroic filters + open, indexing, continuous rotation, random color
Rotating aerial effects:	Wheel with 4 interchangeable rotating aerial effects, effect indexing, continuous rotation and shake
Iris:	Variable, pulse effects
Mechanical dimmer:	0 - 100%, choice of four dimming curves
Mechanical shutter:	Strobe effect, pulse effects, instant open and blackout
Focus:	2 m (6.6 ft.) to infinity
Zoom:	Motorized
Zoom-focus linking system:	Automatic
Wash effect:	Fade in/out
Pan:	540°
Tilt:	268°
Position correction system:	Absolute position monitoring
CONTROL AND PROGRAMMING	
DMX channels:	22
Setting and addressing:	Control panel with backlit graphic display and jog wheel or via DMX
RDM:	Implemented
16-bit control:	Dimmer, gobo indexing (gobo wheel 1), frame rotation, focus, zoom, pan and tilt
DMX compliance:	USITT DMX512-A
RDM compliance:	ANSI/ESTA E1.20
Receiver:	Opto-isolated RS-485
Firmware update:	USB memory device or USB/DMX hardware interface over DMX link
CONSTRUCTION	
Color(s):	Black
Housing:	Magnesium alloy, UV-resistant fiber-reinforced composite
Reflector:	Glass, cold light
Protection rating:	IP20
INSTALLATION	
Mounting points:	2 pairs of 1/4-turn locks
Orientation:	Any
Minimum distance to illuminated surfaces:	2.5 m (8.2 ft.)
Minimum distance to combustible materials:	0.2 m (0.7 ft.)
CONNECTIONS	
AC power input:	Neutrik PowerCon
DMX and RDM data in/out:	5-pin locking XLR
Ethernet (Artnet II compatible, ACN-ready):	Neutrik RJ-45 socket (accepts Neutrik EtherCon connectors in housing)
USB memory devices:	USB host socket
Future USB options:	USB device socket

Specifications

ELECTRICAL

AC power:	200-240 V nominal, 50/60 Hz
Power supply unit:	Auto-ranging electronic switch-mode
Main fuses:	16 AT (x 2)

THERMAL

Cooling:	Filtered forced air (temperature-regulated, low noise)
Maximum ambient temperature (Ta max.):	40° C (104° F)
Maximum surface temperature, steady state, Ta=40° C (104° F):	170° C (338° F)
Total heat dissipation (calculated, +/- 10% at 200 V, 60 Hz):	6160 BTU/hr

APPROVALS

EU safety:	EN 60598-1, EN 60598-2-17
EU EMC:	EN 55 015, EN 55 103-1, EN 61 547
US safety (pending):	ANSI/UL 1573
Canadian safety (pending):	CAN/CSA E60598-1, CAN/CSA E598-2-17

INCLUDED ITEMS

Lamp (installed)	
Two Omega clamp attachment brackets with 1/4-turn fasteners:	P/N 91602001

ACCESSORIES

Power cable, AWG12, SJT, with Neutrik PowerCon NAC3FCA input connector, 3 m (9.8ft.):	P/N 11541503
Neutrik PowerCon NAC3FCA power input connector, cable mount, blue:	P/N 05342804
Omega clamp attachment bracket with 1/4-turn fasteners:	P/N 91602001
T-shaped omega clamp attachment bracket with 1/4-turn fasteners:	P/N 91602008
Half-coupler clamp:	P/N 91602005
G-clamp (suspension with yoke vertically downwards only):	P/N 91602003
Quick-trigger clamp (suspension with yoke vertically downwards only):	P/N 91602007
Super Truss 20.5" mounting plate with half-couplers:	P/N 91602014
Swing-wing truss mounting plate with half-couplers:	P/N 91602010
Safety wire, safe working load 70 kg (154.3 lbs.):	P/N 91604004

ORDERING INFORMATION

MAC III AirFX in cardboard box:	P/N 90206500
MAC III AirFX in single flightcase:	P/N 90206510

MAC III Wash™

The MAC III Wash is a full-feature, full-range wash luminaire with a unique internal barndoor system (shutters) that enables designers to shape and control light projection onto stages, performers, scenery, scrims or any set element with great precision. It features an outstanding quality of light with unlimited color choices and impressive power. Unlike other fixtures, light output remains constant throughout the entire zoom range with no visible beam jump when zooming from tight to wide.

Features

- Powerful wash light with internal barndoors
- 1:4 linear zoom with no lumen drop or internal lens changes
- CMY color mixing plus color wheel
- Variable CTO
- Iris
- Dimmer / Shutter
- 9 Fresnel lens
- Optional PC lens

Specifications

PHYSICAL

Length (Head):	712 mm (28.0 in.)
Width:	536 mm (21.1 in.)
Height:	936 mm (36.9 in.)
Weight:	53.5 kg (117.9 lbs.)

LAMP

Type:	1500 W short-arc discharge
Color temperature:	6000 K
CRI (Color rendering index):	>85
Average lifetime:	750 hours
Hot restrike:	Semi-hot (restrike in under 90 seconds)
Socket:	PGJ50
Ballast:	Electronic

Specifications

DYNAMIC EFFECTS

Color mixing:	CMY, independently variable 0 - 100%
Color temperature control:	CTO, variable 6000 - 3200 K
Color wheel:	7 interchangeable dichroic filters + open, indexing, continuous rotation, random color
Beam shaping:	Internal barn doors, continuously variable opening, +55°/-55° indexed rotation
Iris:	Variable, pulse effects
Mechanical dimmer:	0 - 100%, choice of four dimming curves
Mechanical shutter:	Strobe effect 2 - 10 Hz, pulse effects, instant open and blackout
Zoom:	Motorized
Pan:	540°
Tilt:	268°
Position correction system:	Absolute position monitoring

CONTROL AND PROGRAMMING

DMX channels:	20
Setting and addressing:	Control panel with backlit graphic display and jog wheel or via DMX
RDM:	Implemented
16-bit control:	Dimmer, gobo indexing (gobo wheels 1 and 2), focus, zoom, pan and tilt
DMX compliance:	USITT DMX512-A
RDM compliance:	ANSI/ESTA E1.20
Receiver:	Opto-isolated RS-485
Firmware update:	USB memory device or USB/DMX hardware interface over DMX link

PHOTOMETRIC DATA

Max. luminous flux:	48 000 lumens (narrow zoom), 44 000 lumens (wide zoom)
Max. luminous intensity:	5 900 000 candela (narrow zoom)

Photometric data is preliminary

CONSTRUCTION

Color(s):	Black
Housing:	Magnesium alloy, UV-resistant fiber-reinforced composite
Reflector:	Glass, cold light
Protection rating:	IP20

INSTALLATION

Mounting points:	2 pairs of 1/4-turn locks
Orientation:	Any
Minimum distance to illuminated surfaces:	2.5 m (8.2 ft.)
Minimum distance to combustible materials:	0.2 m (0.7 ft.)

CONNECTIONS

AC power input:	Neutrik PowerCon
DMX and RDM data in/out:	5-pin locking XLR
Ethernet (Artnet II compatible, ACN-ready):	Neutrik RJ-45 socket (accepts Neutrik EtherCon connectors in housing)
USB memory devices:	USB host socket
Future USB options:	USB device socket

ELECTRICAL

AC power:	200-240 V nominal, 50/60 Hz
Power supply unit:	Auto-ranging electronic switch-mode
Main fuses:	16 AT (x 2)

Specifications

THERMAL

Cooling:	Filtered forced air (temperature-regulated, low noise)
Maximum ambient temperature (Ta max.):	40° C (104° F)
Maximum surface temperature, steady state, Ta=40° C (104° F):	170° C (338° F)
Total heat dissipation (calculated, +/- 10% at 200 V, 60 Hz):	6160 BTU/hr

APPROVALS

EU safety:	EN 60598-1, EN 60598-2-17
EU EMC:	EN 55 015, EN 55 103-1, EN 61 547
US safety (pending):	ANSI/UL 1573
Canadian safety (pending):	CAN/CSA E60598-1, CAN/CSA E598-2-17

INCLUDED ITEMS

Lamp (installed)	
Two Omega clamp attachment brackets with 1/4-turn fasteners:	P/N 91602001

ACCESSORIES

Power cable, AWG12, SJT, with Neutrik PowerCon NAC3FCA input connector, 3 m (9.8ft.):	P/N 11541503
Neutrik PowerCon NAC3FCA power input connector, cable mount, blue:	P/N 05342804
Philips MSR Gold 1500 Fastfit lamp:	P/N 97010340
Omega clamp attachment bracket with 1/4-turn fasteners:	P/N 91602001
T-shaped omega clamp attachment bracket with 1/4-turn fasteners:	P/N 91602008
Half-coupler clamp:	P/N 91602005
G-clamp (suspension with yoke vertically downwards only):	P/N 91602003
Quick-trigger clamp (suspension with yoke vertically downwards only):	P/N 91602007
Super Truss 20.5" mounting plate with half-couplers:	P/N 91602014
Swing-wing truss mounting plate with half-couplers:	P/N 91602010
Safety wire, safe working load 70 kg (154.3 lbs.):	P/N 91604004
Flightcase for 1 x MAC III:	P/N 91510080

ORDERING INFORMATION

MAC III Wash in cardboard box:	P/N 90206520
MAC III Wash in single flightcase:	P/N 90206530

Stagebar 2™

With twice the lumen output and 10 times the intensity of the Stagebar 54™, the Stagebar 2 is an extremely capable LED pixel bar and wash luminaire. This exceptional performance is obtained by combining the latest LED technology with an advanced lens design. The Stagebar 2 offers a wide range of shades from an RGBAW color mixing system and is useful for displaying imagery and video or for floodlighting surfaces and stages.

Features

- RGBAW color mixing system for outstanding color palette
- Factory color calibration
- Over 3000 lm per ft (almost 10000 lm per meter)
- Super high intensity and tighter beam due to advanced lens design
- Opal diffuser lens for scenic on-camera looks
- Quiet operation
- Daisy-chained power and data
- Battery-powered control menu for off-site setup without power

Specifications

PHYSICAL

Stagebar 2 S Length:	420 mm (16.5 in.)
Stagebar 2 L Length:	630 mm (24.8 in.)
Width:	190 mm (7.5 in.)
Height:	105 mm (4.1 in.)
Stagebar 2 S Weight:	5.5 kg (12.1 lbs.) without bracket
Stagebar 2 L Weight:	7.3 kg (16.1 lbs.) without bracket

DYNAMIC EFFECTS

Color mixing:	RGBAW
Red:	0 - 100%
Green:	0 - 100%
Blue:	0 - 100%
Amber:	0 - 100%
White:	0 - 100%

CONTROL AND PROGRAMMING

Color control modes:	RGBAW, RGB, HSI, HSIC
DMX channels:	3 - 30
Grouped pixel control options:	6 x 1 (individual), 3 x 2, 2 x 3 or 1 x 6 (all as one group) pixels
DMX address setting:	Manual, auto addressing and auto address copy
Fixture setup:	Onboard control panel with display
Display:	Battery-powered backlit LCD, 2 x 16 characters
16-bit control (internal):	RGBAW, RGB, HSI, HSIC
Protocol:	USITT DMX512-A
Receiver:	RS-485
Firmware update:	Serial upload via DMX link

CONSTRUCTION

Color:	Black
Housing:	Steel and aluminum
Finish:	Electrostatic powder-coatedProtection rating: IP20

INSTALLATION

Mounting points:	Adjustable mounting bracket, 1/4-turn locks, four M6 threaded holes
Orientation:	Any

CONNECTIONS

Power in/out:	Neutrik PowerCon
PowerConData in/out:	5-pin locking XLR

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Power supply unit:	Integrated, auto-sensing multi-voltage
Power output fuse:	15 AT (slow blow)
Main fuse:	4 AT (slow blow)

THERMAL

Cooling:	Filtered forced air (temperature-regulated, low noise)
Maximum ambient temperature (Ta max.):	40° C (104° F)
Minimum ambient temperature (Ta min.):	5° C (41° F)
Maximum surface temperature, steady state, Ta=40° C (104° F):	90° C (194° F)
Total heat dissipation (calculated, +/- 10%):	860 BTU/hr.

APPROVALS

EU safety:	EN 60598-2-17, EN 62471, EN 61347-2-13
EU EMC:	EN 55015, EN 61547, EN 55103-1, EN 55103-2
US safety:	UL 1573
US EMC:	FCC Part 15 Class A
Canadian safety:	CAN/CSA E598-2-17
Canadian EMC:	ICES-003 Class A
Australia/NZ:	C-TICK N4241

INCLUDED ITEMS

Opal front cover	
Narrow diffuser filter	
Neutrik PowerCon NAC3FCA male input connector:	P/N 05342804
Omega clamp attachment bracket with quarter-turn fasteners:	P/N 91602001
User manual:	P/N 35000250

ACCESSORIES

Power cable, AWG12, SJT, with Neutrik PowerCon NAC3FCA input connector, 3 m:	P/N 11541503
Neutrik PowerCon NAC3FCA power input connector, cable mount, blue:	P/N 05342804
Neutrik PowerCon NAC3FCB power output connector, cable mount, light grey:	P/N 05342805
Power relay cable with PowerCon connectors, 1.4 m:	P/N 11850099
Power relay cable with PowerCon connectors, 2.25 m:	P/N 11850100
Set of 4 Narrow diffuser filters, Stagebar 2 S:	P/N 91614035
Set of 4 Medium diffuser filters, Stagebar 2 S:	P/N 91614036
Set of 4 Narrow diffuser filters, Stagebar 2 L:	P/N 91614037
Set of 4 Medium diffuser filters, Stagebar 2 L:	P/N 91614038
Adjustable floorstand/mounting bracket:	P/N 71606007

ORDERING INFORMATION

Stagebar 2 S, RGBAW:	P/N 90352070
Stagebar 2 L, RGBAW:	P/N 90352090

Atomic 3000 DMX™

The Atomic 3000 DMX is a powerful and rugged, 3000 W high-impact strobe. It has been the industry's favorite strobe light for over a decade.

Features

- 3000 W long-life Xenon lamp included
- 5600 K color temperature
- Continuous blinder effect with auto fade
- Quiet temperature-controlled fan cooling
- Smart, integrated heat control eliminates cool down time
- Atomic Detonator remote control, socket kit for lamp change
- Auto-ranging power supply (100-240 V, 50/60 Hz)
- DMX, stand-alone, master/slave or Detonator remote control
- Preprogrammed special effects

Specifications

PHYSICAL

Length:	425 mm (16.7 in.) without bracket
Width:	245 mm (9.6 in.) without bracket
Height:	240 mm (9.4 in.) without bracket
Weight:	7.5 kg (16.5 lbs.) without bracket

LAMP

Type:	Xenon discharge
Approved lamps:	MAX-15 Xenon (200-250 V power), MAX-7 Xenon (90-120 V power)

DYNAMIC EFFECTS

Variable strobe:	0 - 650 ms (50 Hz supply), or 0 - 530 ms (60 Hz supply)
Strobe rate:	0 - 25 flashes/second (50 Hz supply), 0 - 30 flashes/second (60 Hz supply)
Blinder effect:	Continuous with auto fade
Strobe intensity:	Blackout - maximum
Special effects:	Ramp up, ramp down, ramp up-down, random flash, lightning, spikes, blinder, single flash

CONTROL AND PROGRAMMING

Control options:	DMX, stand-alone, multi-fixture chase (with Detonator remote), MC-1
DMX channels:	1, 3, and 4 channel modes
Stand-alone control:	Via N.O. or N.C. SPST switch
Stand-alone options:	Selectable flash rate or blinder effect
Setting and addressing:	DIP switch
Protocol:	DMX512
Receiver:	RS-485

CONSTRUCTION

Housing:	Steel
Finish:	Electrostatic powder-coated
Color:	Black

INSTALLATION

Minimum distance to combustible materials:	0.5 m (1.6 ft.)
Minimum distance to illuminated surfaces:	1 m (3.3 ft.)
Minimum clearance around fan and air vents:	0.1 m (0.3 ft.)
Orientation:	Any
Mounting points:	Five 12 mm (0.5 in.) holes in mounting bracket

ELECTRICAL

AC power (MAX-7 model):	100-120 V nominal, 50/60 Hz
AC power (MAX-15 model):	200-240 V nominal, 50/60 Hz
Peak current consumption:	33 A
Typical current consumption (MAX-15, high power mode):	8 A
Power supply unit:	Auto-ranging electronic switch-mode

THERMAL

Maximum ambient temperature (Ta max.):	40° C (104° F)
Maximum lamp socket temperature:	120° C (248° F)

APPROVALS

US safety:	UL 1573
Canadian safety:	CAN/CSA C22.2 No. 166
EU safety:	EN 60598-2-17
EU EMC:	EN 55015, EN 61547, EN55103-1

INCLUDED ITEMS

MAX-15 Xenon lamp (installed, EU model):	P/N 97010307
MAX-7 Xenon lamp (installed, US model):	P/N 97010308

ACCESSORIES

Atomic Detonator:	P/N 90760020
Atomic Colors for Atomic 3000:	P/N 91611086
G-Clamp:	P/N 91602003
Half-coupler clamp:	P/N 91602005

ORDERING INFORMATION

Atomic, EU model:	P/N 90424200
Atomic, US model:	P/N 90424300

Atomic Colors™

Atomic Colors is a specially designed head which fits onto the front of the Atomic 3000 DMX allowing up to ten brightly colored strobe and blinder effects.

Features

- 1 gel string included with 10 colors plus clear
- Quiet fan cooling
- Multiple modes, e.g. gel saver mode, action mode and monitor mode
- Safety wire
- MPU-02 or MPU-08 for powering either 2 or 8 Atomic Colors
- On board memory with monitor and resetting
- DMX control
- DMX address via display

Specifications

PHYSICAL

Length:	470 mm (18.5 in.)
Width:	273 mm (10.7 in.)
Height:	102 mm (4.0 in.)
Weight:	2.5 kg (5.5 lbs.)
Color gel thickness:	0.075 mm (0.003 in.) - 0.125 mm (0.005 in.)

DYNAMIC EFFECTS

Color gel scrolling:	10 colors, custom gel strings can be fabricated

CONTROL AND PROGRAMMING

Control options:	DMX
DMX channels:	1 or 2
Cooling fan speed control:	Onboard control panel or DMX
Gel scrolling speed, 'gel saver' mode, light-activated fan operation:	Onboard control panel
Setting and addressing:	Three-button LED control panel
Protocol:	USITT DMX512/1990

CONSTRUCTION

Housing:	Steel
Finish:	Electrostatic powder-coated
Color(s):	Black
Gel frame capacity:	2-11 gel frames

INSTALLATION

Mounting device:	Dedicated mounting for the Atomic 3000 DMX
Orientation:	Any

ELECTRICAL

DC voltage:	24 V DC (+/- 10%)
DC current:	0.55 A (Max.)
Compatible power supplies:	MPU-02, MPU-08

THERMAL

Cooling:	Forced air, 4-speed fans
Maximum ambient temperature (Ta max.):	40° C (104° F)

INCLUDED ITEMS

10-color standard gel string (installed):	P/N 91611090
5 m power/data cable, 4-pin XLR:	P/N 11821014

ACCESSORIES

MPU-02 Power supply:	P/N 91611084
MPU-08 Power supply:	P/N 91611085

ORDERING INFORMATION

Atomic Colors for Atomic 3000:	P/N 91611086

Detonator™

The Detonator is an optional, dedicated remote control tool for easy command of the Atomic strobe's flash rate and intensity. It includes "blinder effect" and "single flash" detonator buttons as well as a chase/synchronization toggle switch. Easy to set up and operate, the Atomic Detonator requires no external power source.

Features

- Dedicated remote control for Atomic strobe series
- Fader-controlled flash rate and intensity
- Single button for Detonator blinder effect
- Separate button for single flash and flash sync
- Chase effect operation with multiple units
- Easy set-up and operation
- No external power necessary

Specifications

PHYSICAL

Length:	142 mm (5.6 in.)
Width:	113 mm (4.4 in.)
Height:	75 mm (3.0 in.)
Weight:	0.7 kg (1.5 lbs.)

PLAYBACK

Run/stop toggle	
Strobe rate:	0 - 25 Hz (50 Hz mains), 0 - 30 Hz (60 Hz mains)
Intensity:	0 - 100%
Chase/sync toggle for use with multiple fixtures	
Single flash	
Flash synchronization	
Blinder effect:	Triggering with variable intensity

CONSTRUCTION

Housing:	Steel
Color(s):	Black

APPROVALS

EU safety:	EN 60950
EU EMC:	EN 55103-1, EN 55103-2

INCLUDED ITEMS

5 m data cable, 3-pin XLR:	P/N 11820008

ORDERING INFORMATION

Detonator, Atomic Remote Control:	P/N 90760020

ARCHITECTURAL LIGHTING

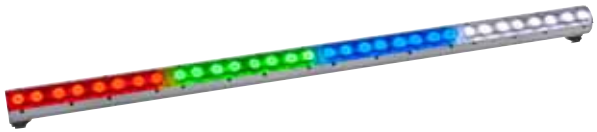
- Tripix 1200 and 300

- Exterior 50 IP68
- Exterior 100 IP68
- Tripix Wash
- Exterior 200
- Exterior 400
- Exterior 410
- Exterior 420
- Exterior 430
- Exterior 600
- Exterior 1200 Wash
- Inground 200

- Exterior 400 Image Projector
- Exterior 1200 Image Projector

- FiberSource QFX150
- FiberSource CMY150

Tripix 300™ and 1200™



The Tripix 300 and Tripix 1200 are attractively designed IP66-rated LED strips using tricolor LEDs for superior color mixing directly at the lens. The result is an absence of color shadows and a broad color palette, including stunning whites, subtle pastels and vibrant saturated colors.

Features

- Uniform color mixing using powerful tricolor LEDs
- No color separation or shadows
- Easy to control: 64 built-in programs and auto addressing
- Quick installation using IP66 cabling system
- Available in 300 mm (1 ft) and 1200 mm (4 ft) lengths in various beam angles

Specifications

PHYSICAL

Tripix 300 and 1200	
Length:	Tripix 300: 300 mm (11.8 in.), Tripix 1200: 1200 mm (47.2 in.)
Width:	61 mm (2.4 in.) including mounting bracket
Height:	82 mm (3.2 in.) including mounting bracket and DIN rail
Weight:	Tripix 300: 1200 g (42.3 oz.), Tripix 1200: 4230 g (149.2 oz.)
Tripix Power	
Length:	447 mm (17.6 in.)
Width:	141 mm (5.6 in.)
Height:	68 mm (2.7 in.)
Weight:	5.8 kg (12.8 lbs.)
Tripix Power IP66	
Length:	314 mm (12.4 in.)
Width:	68 mm (2.7 in.)
Height:	39 mm (1.5 in.)
Weight:	1.5 kg (3.3 lbs.)

OPTICS

Light source:	RGB 3-in-1 LED, approx. 3 W per LED
Total LED power:	Tripix 300: approx 24 W, Tripix 1200: approx. 82 W
Beam angle:	Narrow, medium and wide available

CONTROL AND PROGRAMMING

Color control modes:	RGB (raw and calibrated), HSI, HSIC (calibrated)
Control system:	DMX, stand-alone, master/slave
DMX channels:	3 or 4 per 300 mm (11.8 in.)
Grouped pixel control options:	Divided into sections of 300, 600 or 1200 mm (47.2 in.)
DMX address setting:	Martin MUM™ application running on Windows PC
Protocol:	USITT DMX512-A
Receiver:	RS-485
Firmware update:	Serial upload via DMX link

CONSTRUCTION

Housing:	Aluminum
Finish:	Clear anodized
Front cover:	Flame-retardant PMMA
End covers:	Aluminum
Mounting brackets:	Aluminum
Protection rating:	IP66

INSTALLATION

Orientation:	Any
Aiming:	Any angle between +/- 105°
Mounting:	35 mm (1.4 in.) DIN rail
Distance between strips:	Extendable (see User Manual)

CONNECTIONS

Tripix Power power input:	Male (C14) IEC chassis connector
Tripix Power IP66 power input:	Hard-wired (terminal block) via cable gland
Fixture-to-fixture power and data:	IP66 13-pin DIN cable tail system

ELECTRICAL

AC power:	100-120/200-240 V nominal, 50/60 Hz (input to Tripix Power device)
Standby power:	300 mm (11.8 in.) models, 3 W / 1200 mm (47.2 in.) models, 10 W
Power output:	48 V DC (output from Tripix Power device)

APPROVALS

EU safety:	EN 60598-1, EN 60598-2-1
LED Safety:	IEC 60825-1, IEC 62471
EU EMC:	EN 55015, EN 55103, EN 61 000-3-2
US safety:	UL 1598
Canadian safety:	CAN/CSA C.22.2 No. 250

INCLUDED ITEMS

Included with Tripix 300 and 1200 fixtures:
Tripix striplight fixture with narrow diffuser
Safety leaflet
2 x lengths Short DIN rail, 35 mm (1.4 in.)
Included with Tripix Power:
EU-type power cable with Schuko connector
US-type power cable without mains plug
Included with Tripix Power and Tripix Power IP66:
Tripix power inserter cable (3-way, power and data insertion)
Tripix DMX Termination Plug
User Manual

ACCESSORIES

Tripix DMX Input Adapter:	P/N 91611337
Tripix DMX Output Adapter:	P/N 91611338
Tripix Cable Adapter extension connector set:	P/N 91611323
Set of 8 Tripix Diffusers, Narrow, 304 mm (12.0 in.):	P/N 91611329
Set of 8 Tripix Diffusers, Medium, 304 mm (12.0 in.):	P/N 91611330
Set of 8 Tripix Diffusers, Wide, 304 mm (12.0 in.):	P/N 91611331
All diffuser installation by Martin Service only	
Tripix Front Cover:	P/N 91611332
0.5 m (1.6 ft.) Tripix Extension Cable:	P/N 91611335
1 m (3.3 ft.) Tripix Extension Cable:	P/N 91611334
5 m (16.4 ft.) Tripix Extension Cable:	P/N 91611333
Tripix DMX Termination Plug:	P/N 91611336
Tripix Power Inserter (3-way power and data insertion cable):	P/N 91611339

ORDERING INFORMATION

Tripix 300:	P/N 90354520
Tripix 1200:	P/N 90354530
Tripix Power:	P/N 90760310
Tripix Power IP66:	P/N 90760330

Exterior 50 IP68™

The Exterior 50 IP68 is an exceptionally rugged and compact lighting fixture designed for extreme outdoor and underwater environments, such as fountains, pools, building facades, landscaping, cruise ships - you name it. Ideal for applications requiring superb color mixing (RGBW) or high quality white light (cold, neutral or warm).

Features

- One high-power pre-mixed LED: no color separation or shadows
- Broad color palette (RGBW)
- Color calibration ensuring uniform colors across fixtures
- White light options: Cold, Neutral and Warm White
- Extremely rugged outdoor / underwater design (IP68)
- Discreet low voltage cabling
- Choice of narrow or medium beam angles
- DMX control

Specifications

PHYSICAL

Length:	130 mm (5.1 in.) including cable gland
Width:	87 mm (3.4 in.) including mounting/tilt adjustment fasteners
Height:	117 mm (4.6 in.) including mounting bracket
Weight:	660 g (23.3 oz.) including mounting bracket

POWER SUPPLY UNIT, EU MODEL

Length:	355 mm (14.0 in.)
Width:	146 mm (5.7 in.) including cable glands
Height:	83 mm (3.3 in.)
Weight:	2.8 kg (6.2 lbs.)

DYNAMIC EFFECTS

Color mixing:	RGBW (standard model)
Intensity:	0 - 100% (all models)

OPTICS

Light source:	Cree MC-E high-power emitters
Minimum LED lifetime:	50 000 hours (to >70% luminous output)*

**Manufacturer's figure obtained under manufacturer's test conditions*

CONTROL AND PROGRAMMING

Color control modes:	RGB, RGBW, W
Control options:	DMX, stand-alone, infrared remote
DMX channels:	1, 3, and 4 channel modes
DMX address setting:	PC with Martin MUM software and DABS 1 hardware interface, IR remote
Stand-alone trigger options:	Internal timer
Stand-alone programming:	PC with Martin MUM software and DABS 1 hardware interface
Dimming resolution:	14-bit (internal)
Protocol:	USITT DMX512-A
Receiver:	RS-485
Firmware update:	Serial upload via DMX link

CONSTRUCTION

Color:	Steel grey (custom colors available upon request)
Housing:	Aluminum with micro-arc oxidation coating, stainless steel protection frame
Mounting bracket:	1.5 mm (0.1 in.) stainless steel
Front glass:	Polycarbonate with UV and mechanical protection coating
Protection rating:	IP68

INSTALLATION

Orientation:	Any
Vertical aiming:	330°
Minimum distance to illuminated surfaces:	0.1 m (0.3 ft.)
Mounting:	Direct surface mount, DIN rail, mounting bracket, ground stake

CONNECTIONS

Combined power/data cable entry:	IP68 cable gland
Combined power/data cable:	3 m (9.8 ft.) cable tail

ELECTRICAL

Power supply unit:	External PSU in IPX7-rated housing
AC power:	100-240 V nominal, 50/60 Hz (EU), 60 Hz (US)
AC power (input to PSU):	100-240 V nominal, 50/60 Hz
AC power (input to US model PSU):	100-240 V nominal, 60 Hz
System power (output from PSU):	20 - 40 VDC (36 VDC nominal)
Standby power:	0.42 W per fixture
Power supply unit:	External, Exterior 50/100 PSU

THERMAL

Cooling:	Convection
Maximum ambient temperature (Ta max.):	45° C (113° F)
Minimum ambient temperature (Ta min.):	-30° C (-22° F), power must be maintained below 0° C (32° F)

APPROVALS

EU safety:	EN 60598-1, EN 60598-2-1
EU EMC:	EN 55103-1, EN 55103-2, EN 61000-3-2, EN 61000-3-3
US safety:	UL 1598, UL 8750

US safety approvals apply to the entire system using the US model PSU.

INCLUDED ITEMS

Adjustable mounting bracket
User manual

ACCESSORIES

Exterior 50 & 100 PSU:	P/N 90510150
Exterior 50 & 100 Splitter:	P/N 90510160
Exterior 50 & 100 compound set:	P/N 90510220
Exterior 50 & 100 gel jacket:	P/N 90510230
Exterior 50 & 100 infrared remote control:	P/N 90510210
Exterior 50 light shield, narrow:	P/N 90510270
Exterior 50 light shield, medium:	P/N 90510280
Exterior 50 light shield, wide:	P/N 90510290
Exterior 50 & 100 fixture link hybrid cable with connector, 10 m (32.8 ft.):	P/N 90510200
Exterior 50 & 100 splitter link hybrid cable, 25 m (82.0 ft.):	P/N 90510170
Exterior 50 & 100 splitter link hybrid cable, 50 m (164.0 ft.):	P/N 90510180
Exterior 50 & 100 splitter link hybrid cable, 100 m (328.1 ft.):	P/N 90510190
Exterior 50 & 100 telescopic bracket:	P/N 90510300
Exterior 50 & 100 mounting bracket:	P/N 90510310
Exterior 50 & 100 ground stake:	P/N 90510320

ORDERING INFORMATION

Exterior 50 & 100 PSU (Power Supply Unit), EU model:	P/N 90510150
Exterior 50 & 100 PSU (Power Supply Unit), US model:	P/N 90510155
Exterior 50 & 100 Splitter	P/N 90510160
Exterior 50 IP68 RGBW, Medium:	P/N 90510080
Exterior 50 IP68 CW, Narrow:	P/N 90510090
Exterior 50 IP68 CW, Medium:	P/N 90510100
Exterior 50 IP68 NW, Narrow:	P/N 90510110
Exterior 50 IP68 NW, Medium:	P/N 90510120
Exterior 50 IP68 WW, Narrow:	P/N 90510130
Exterior 50 IP68 WW, Medium:	P/N 90510140

Exterior 100 IP68™

The Exterior 100 IP68 is an exceptionally rugged and compact lighting fixture designed for extreme outdoor and underwater environments, such as fountains, pools, building facades, landscaping, cruise ships - you name it.

Ideal for applications requiring superb color mixing (RGBW) or high quality white light (cold, neutral or warm).

Features

- Four high power pre-mixed LEDs: no color separation or shadows
- Broad color palette (RGBW)
- Color calibration ensuring uniform colors across fixtures
- White light options: Cold, Neutral and Warm White
- Extremely rugged outdoor / underwater design (IP68)
- Discreet low voltage cabling
- Choice of narrow or medium beam angles
- DMX control

Specifications

PHYSICAL

Length:	165 mm (6.5 in.) including cable gland
Width:	127 mm (5.0 in.) including mounting/tilt adjustment fasteners
Height:	166 mm (6.5 in.) including mounting bracket
Weight:	1.39 kg (3.1 lbs.) including mounting bracket

POWER SUPPLY UNIT, EU MODEL

Length:	355 mm (14.0 in.)
Width:	146 mm (5.7 in.) including cable glands
Height:	83 mm (3.3 in.)
Weight:	2.8 kg (6.2 lbs.)

DYNAMIC EFFECTS

Color mixing:	RGBW (standard model)
Intensity:	0 - 100% (all models)Optics

OPTICS

Light source:	Cree MC-E high-power emitters
Minimum LED lifetime:	50 000 hours (to >70% luminous output)*

**Manufacturer's figure obtained under manufacturer's test conditions*

CONTROL AND PROGRAMMING

Color control modes:	RGB, RGBW, W
Control options:	DMX, stand-alone, infrared remote
DMX channels:	1, 3, and 4 channel modes
DMX address setting:	PC with Martin MUM software and DABS 1 hardware interface, IR remote
Stand-alone trigger options:	Internal timer
Stand-alone programming:	PC with Martin MUM software and DABS 1 hardware interface
Dimming resolution:	14-bit (internal)
Protocol:	USITT DMX512-A
Receiver:	RS-485
Firmware update:	Serial upload via DMX link

CONSTRUCTION

Color:	Steel grey (custom colors available upon request)
Housing:	Aluminum with micro-arc oxidation coating, stainless steel protection frame
Mounting bracket:	1.5 mm (0.1 in.) stainless steel
Front glass:	Polycarbonate with UV and mechanical protection coating
Protection rating:	IP68

INSTALLATION

Orientation:	Any
Vertical aiming:	330°
Minimum distance to illuminated surfaces:	0.1 m (0.3 ft.)
Mounting:	Direct surface mount, DIN rail, mounting bracket, ground stake

CONNECTIONS

Combined power/data cable entry:	IP68 cable gland
Combined power/data cable:	3 m (9.8 ft.) cable tail

ELECTRICAL

Power supply unit:	External PSU in IPX7-rated housing
AC power:	100-240 V nominal, 50/60 Hz (EU), 60 Hz (US)
AC power:	100-240 V nominal, 50/60 Hz
AC power (input to US model PSU):	100-240 V nominal, 60 Hz
Standby power:	0.42 W per fixture
Power supply unit:	External, Exterior 50/100 PSU

THERMAL

Cooling:	Convection
Maximum ambient temperature (Ta max.):	45° C (113° F)
Minimum ambient temperature (Ta min.):	-30° C (-22° F), power must be maintained below 0° C (32° F)

APPROVALS

EU safety:	EN 60598-1, EN 60598-2-1
EU EMC:	EN 55103-1, EN 55103-2, EN 61000-3-2, EN 61000-3-3
US safety:	UL 1598, UL 8750

US safety approvals apply to the entire system using the US model PSU.

INCLUDED ITEMS

Adjustable mounting bracket
User manual

ACCESSORIES

Exterior 50 & 100 PSU:	P/N 90510150
Exterior 50 & 100 Splitter:	P/N 90510160
Exterior 50 & 100 compound set:	P/N 90510220
Exterior 50 & 100 gel jacket:	P/N 90510230
Exterior 50 & 100 infrared remote control:	P/N 90510210
Exterior 100 light shield, narrow:	P/N 90510240
Exterior 100 light shield, medium:	P/N 90510250
Exterior 100 light shield, wide:	P/N 90510260
Exterior 50 & 100 fixture link hybrid cable with connector, 10 m (32.8 ft.):	P/N 90510200
Exterior 50 & 100 splitter link hybrid cable, 25 m (82.0 ft.):	P/N 90510170
Exterior 50 & 100 splitter link hybrid cable, 50 m (164.0 ft.):	P/N 90510180
Exterior 50 & 100 splitter link hybrid cable, 100 m (328.1 ft.):	P/N 90510190
Exterior 50 & 100 telescopic bracket:	P/N 90510300
Exterior 50 & 100 mounting bracket:	P/N 90510310
Exterior 50 & 100 ground stake:	P/N 90510320

ORDERING INFORMATION

Exterior 50 & 100 PSU (Power Supply Unit), EU model:	P/N 90510150
Exterior 50 & 100 PSU (Power Supply Unit), US model:	P/N 90510155
Exterior 50 & 100 Splitter	P/N 90510160
Exterior 100 IP68 RGBW, Narrow:	P/N 90510000
Exterior 100 IP68 RGBW, Medium:	P/N 90510010
Exterior 100 IP68 CW, Narrow:	P/N 90510020
Exterior 100 IP68 CW, Medium:	P/N 90510030
Exterior 100 IP68 NW, Narrow:	P/N 90510040
Exterior 100 IP68 NW, Medium:	P/N 90510050
Exterior 100 IP68 WW, Narrow:	P/N 90510060
Exterior 100 IP68 WW, Medium:	P/N 90510070

Tripix Wash™

The Tripix Wash is an attractively designed IP66-rated fixture using tricolor LEDs for superior color mixing directly at the lens. The result is an absence of color shadows and a broad color palette, including stunning whites, subtle pastels and vibrant saturated colors. The Tripix Range can be used in a variety of indoor and outdoor applications and installs in minutes using a slim IP66 cable connector.

Features

- Uniform color mixing using powerful tricolor LEDs
- No color separation or shadows
- Easy to control: 64 built-in programs and auto addressing
- Quick installation using IP66 cabling system
- Very Narrow, Narrow, Medium and Wide beam angles

Specifications

PHYSICAL

Tripix Wash	
Width:	335 mm (13.2 in.)
Height:	213 mm (8.4 in.) including mounting bracket
Depth:	66 mm (2.6 in.) including mounting bracket
Weight:	4.4 kg (9.7 lbs.)
Tripix Power	
Length:	447 mm (17.6 in.)
Width:	141 mm (5.6 in.)
Height:	68 mm (2.7 in.)
Weight:	5.8 kg (12.8 lbs.)
Tripix Power IP66	
Length:	314 mm (12.4 in.)
Width:	68 mm (2.7 in.)
Height:	39 mm (1.5 in.)
Weight:	1.5 kg (3.3 lbs.)

OPTICS

Light source:	RGB 3-in-1 LED
Total LED power:	72 W
Beam angle:	Very narrow (no diffuser), narrow, medium and wide available

CONTROL AND PROGRAMMING

Color control modes:	RGB (raw and calibrated), HSI (calibrated) HSIC (uncalibrated)
Control options:	DMX, stand-alone, synchronized (master/slave)
DMX channels:	3 or 4 depending on mode
Grouped pixel control options:	1-, 2- and 4-pixel modes
DMX address setting:	Martin MUM™ application running on Windows PC
RDM:	Implemented
Protocol:	USITT DMX512-A
Receiver:	RS-485
Firmware update:	Serial upload via DMX link

CONSTRUCTION

Housing:	Aluminum
Finish:	Grey
Front cover:	Toughened glass
Protection rating:	IP66

INSTALLATION

Orientation:	Any
Vertical aiming:	22° down, 141° up
Horizontal aiming:	+/- 90°

CONNECTIONS

Tripix Power power input:	Male (C14) IEC chassis connector
Tripix Power IP66 power input:	Hard-wired (terminal block) via cable gland
Fixture-to-fixture power and data:	IP66 13-pin DIN cable tail system

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz (input to Tripix Power and Tripix Power IP66)
Power supply unit:	Auto-ranging electronic switch-mode
Power output:	48 V DC (output from Tripix Power and Tripix Power IP66)
Standby power:	<10 W

APPROVALS

EU safety:	EN 60598-1, EN 60598-2-1
LED Safety:	IEC 60825-1, 2001; IEC 62471, 2006
EU EMC:	EN 55 015, EN 55 103, EN 61 000-3
US safety:	UL 1598
Canadian safety:	CAN/CSA C.22.2 No. 250

INCLUDED ITEMS

Included with Tripix Wash fixtures
Tripix Wash fixture with narrow diffuser installed
Safety leaflet

Included with Tripix Power:
EU-type power cable with Schuko connector
US-type power cable without mains plug

Included with Tripix Power and Tripix Power IP66:
Tripix power inserter cable (3-way, power and data insertion)
Tripix DMX Termination Plug
User manual

ACCESSORIES

Set of 4 Tripix Wash Diffusers, Narrow:	P/N 91610038
Set of 4 Tripix Wash Diffusers, Medium:	P/N 91610036
Set of 4 Tripix Wash Diffusers, Wide:	P/N 91610037
Tripix DMX Input Adapter:	P/N 91611337
Tripix DMX Output Adapter:	P/N 91611338
Tripix Cable Adapter extension connector set:	P/N 91611323
0.5 m (1.6 ft.) Tripix Extension Cable:	P/N 91611335
1 m (3.3 ft.) Tripix Extension Cable:	P/N 91611334
5 m (16.4 ft.) Tripix Extension Cable:	P/N 91611333
Tripix DMX Termination Plug:	P/N 91611336
Tripix Power Inserter (3-way power and data insertion cable):	P/N 91611339

ORDERING INFORMATION

Tripix Wash:	P/N 90354540
Tripix Power:	P/N 90760310
Tripix Power IP66:	P/N 90760330

Custom colors available by special order - please contact your Martin distributor for details

Exterior 200™

The Exterior 200 series is a range of programmable 150 W luminaires weatherproofed for dynamic illumination of facades, structures, water features and monuments.

Features

- 150 W metal halide lamp
- CMY color mixing system
- Choice of optical systems: very narrow, narrow, medium, wide or very wide
- 0-100% intensity control
- High optical performance: uniform distribution of light and color
- Weatherproof rating: IP65
- Extensive range of optical accessories
- Ellipsoidal beam shaping options
- DMX, stand-alone, synchronized (master/slave)
- Onboard light sensor

Specifications

PHYSICAL

Length:	301 mm (11.9 in.)
Width:	310 mm (12.2 in.)
Height:	402 mm (15.8 in.)
Weight:	15 kg (33.1 lbs.)
Length (VN and N models):	431 mm (17.0 in.)
Width (VN and N models):	310 mm (12.2 in.)
Height (VN and N models):	402 mm (15.8 in.)
Weight (VN and N models):	16.6 kg (36.6 lbs.)

LAMP

Type:	150 W metal halide
Approved lamps:	Philips CDM-SA/T 150, GE CMH 150, Osram HSD 150/70
Socket:	G12
Control:	Automatic and/or remote on/off

DYNAMIC EFFECTS

Color mixing:	CMY
Cyan:	0 - 100%
Magenta:	0 - 100%
Yellow:	0 - 100%
Dimmer:	0 - 100%

CONTROL AND PROGRAMMING

Control options:	DMX, stand-alone, synchronized (master/slave)
DMX channels:	7
Stand-alone trigger options:	Internal timer and/or ambient light level
Stand-alone memory:	20 scenes
DMX address setting:	MUM
Stand-alone and master/slave programming:	MUM

CONSTRUCTION

Housing:	Aluminum
Finish:	Clear anodized
Mounting bracket:	8 mm (0.3 in.) anodized aluminum
Front glass:	6 mm (0.2 in.) anti-reflection coated
Protection rating:	IP 65

INSTALLATION

Orientation:	Any
Horizontal aiming:	90°
Vertical aiming:	330°
Minimum distance to combustible materials:	1 m (3.3 ft.)
Minimum distance to illuminated surfaces:	0.5 m (1.6 ft.)

ELECTRICAL

AC power:	208 V, 60 Hz / 230 V, 50 Hz / 245 V, 50 Hz / 277 V, 60 Hz
Standby power:	27W

THERMAL

Maximum ambient temperature (Ta max.):	40° C (104° F)
Minimum ambient temperature (Ta min.):	-20° C (-4° F), power must be maintained below 0° C (32° F)
Maximum surface temperature, steady state, Ta=40° C:	90° C (194° F)
Cooling:	Convection

APPROVALS

EU EMC:	EN 55015, EN 55103-1, EN 61547
EU safety:	EN 60598-2-3, EN 60598-2-5
US safety:	UL 1573
Canadian safety:	CAN/CSA C22.2 No. 166

ACCESSORIES

Elliptical beamshaper kit for PC lens installed in VN models (gives 8° x 16° half-peak angle):	P/N 91610028
Elliptical beamshaper lens (gives 41° x 46° half-peak angle):	P/N 91610023
Snoot/barndoor kit:	P/N 91611031
Snoot/barndoor extensions kit:	P/N 91611032
Safety eyebolt:	P/N 91611239

ORDERING INFORMATION

Exterior 200 CMY, VN, 208 V, 60 Hz:	P/N 90509024
Exterior 200 CMY, VN, 230 V, 50 Hz:	P/N 90509020
Exterior 200 CMY, VN, 245 V, 50 Hz:	P/N 90509022
Exterior 200 CMY, VN, 277 V, 60 Hz:	P/N 90509026
Exterior 200 CMY, N, 208 V, 60 Hz:	P/N 90509044
Exterior 200 CMY, N, 230 V, 50 Hz:	P/N 90509040
Exterior 200 CMY, N, 245 V, 50 Hz:	P/N 90509042
Exterior 200 CMY, N, 277 V, 60 Hz:	P/N 90509046
Exterior 200 CMY, M, 208 V, 60 Hz:	P/N 90509048
Exterior 200 CMY, M, 230 V, 50 Hz:	P/N 90509045
Exterior 200 CMY, M, 245 V, 50 Hz:	P/N 90509047
Exterior 200 CMY, M, 277 V, 60 Hz:	P/N 90509043
Exterior 200 CMY, W 38°, 208 V, 60 Hz:	P/N 90509004
Exterior 200 CMY, W 38°, 230 V, 50 Hz:	P/N 90509000
Exterior 200 CMY, W 38°, 245 V, 50 Hz:	P/N 90509002
Exterior 200 CMY, W 38°, 277 V, 60 Hz:	P/N 90509005
Exterior 200 CMY, W 42°, 208 V, 60 Hz:	P/N 90509011
Exterior 200 CMY, W 42°, 230 V, 50 Hz:	P/N 90509009
Exterior 200 CMY, W 42°, 245 V, 50 Hz:	P/N 90509010
Exterior 200 CMY, W 42°, 277 V, 60 Hz:	P/N 90509003
Exterior 200 CMY, VW, 208 V, 60 Hz:	P/N 90509084
Exterior 200 CMY, VW, 230 V, 50 Hz:	P/N 90509080
Exterior 200 CMY, VW, 245 V, 50 Hz:	P/N 90509082
Exterior 200 CMY, VW, 277 V, 60 Hz:	P/N 90509086

VN = Very Narrow (Long Barrel), N = Narrow (Long Barrel), M = Medium, W = Wide, VW = Very Wide

Exterior 400™

For lighting designs requiring uniform color washes at great distances, the Exterior 400 provides extremely bright light (5300 lm) at narrow to wide beam angles. Great for lighting the tops of structures, up-lighting columns or reaching across long spaces, the Exterior 400 also broadens your choice of colors by mixing red, green, blue and white LEDs.

Features

- Extremely bright (5300 lm)
- Broad color palette (RGBW)
- Very low power consumption (max 139 W)
- Choice of beam angles - 7.5°, 14.5°, 31°, 57°
- Color calibration ensuring uniform colors across fixtures
- Internal power and control
- Super rugged IP65 housing
- Choice of white, black or aluminum housing
- 0 – 100% intensity control

Specifications

PHYSICAL

Length:	169 mm (6.7 in.) including cable gland
Width:	307 mm (12.1 in.)
Height:	401 mm (15.8 in.)
Weight:	7.6 kg (16.8 lbs.) including bracket

DYNAMIC EFFECTS

Color mixing:	RGBW
Red:	0 - 100%
Green:	0 - 100%
Blue:	0 - 100%
White:	0 - 100%

OPTICS

Light source:	Cree XP-E high power emitters
White LED:	Neutral white, 5700 - 7000 K
Minimum LED lifetime:	50 000 hours (to >70% luminous output)*

Very Narrow (no diffuser), Narrow, Medium and Wide beam angles available

**Manufacturer's figure obtained under manufacturer's test conditions*

CONTROL AND PROGRAMMING

Color control modes:	RGB, RGBW, HSI, HSIC
Control options:	DMX, stand-alone, synchronized (master/slave)
DMX channels:	3 or 4 depending on mode
DMX address setting:	PC with Martin MUM software and DABS 1 hardware interface
Stand-alone trigger options:	Internal timer and/or ambient light level
Stand-alone and master/slave programming:	PC with Martin MUM software and DABS 1 hardware interface
26-bit control (internal):	RGB, RGBW, HSI, HSIC
Protocol:	USITT DMX512-A
Receiver:	RS-485
Firmware update:	Serial upload via DMX link

CONSTRUCTION

Color:	Clear anodized, black or white
Housing:	Anodized aluminum
Mounting bracket:	8 mm (0.3 in.) anodized aluminum
Front glass:	6 mm (0.2 in.) anti-reflection coated
Protection rating:	IP65

INSTALLATION

Orientation:	Any
Vertical aiming:	330°
Minimum distance to illuminated surfaces:	0.1 m (0.3 ft.)

CONNECTIONS

Power cable entry:	IP68 cable gland
Power connection:	1.8 m (5.9 ft.) cable tail
Data cable entry:	IP68 cable gland
Data connection:	1.8 m (5.9 ft.) combined input + output cable tail

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Standby power:	13 W
Power supply unit:	Integrated, auto-sensing multi-voltage
Main fuse:	2.5 AT (slow blow)

APPROVALS

EU safety:	EN 60598-1, EN 60598-2-1, IEC/EN 60825-1
EU EMC:	EN 55103-1, EN 55103-2, EN 61000-3-2, EN 61000-3-3
US safety (US model):	UL 1598
Canadian safety (US model):	CAN/CSA C.22.2 No. 250

INCLUDED ITEMS

Adjustable mounting yoke

Narrow, Medium and Wide diffusers (supplied separately with product)

ACCESSORIES

Narrow beam angle kit (diffuser sheet):	P/N 41600122
Medium beam angle kit (diffuser sheet):	P/N 41600123
Wide beam angle kit (diffuser sheet):	P/N 41600124
Exterior 200 floor stand:	P/N 91611305
Safety eyebolt:	P/N 91611239
3-pin male XLR connector, cable-type, IP65:	P/N 91611306
3-pin female XLR connector, cable-type, IP65:	P/N 91611307

ORDERING INFORMATION

Exterior 400, EU Model, Aluminum:	P/N 90545050
Exterior 400, US Model, Aluminum:	P/N 90545150
Exterior 400, EU Model, Black:	P/N 90545060
Exterior 400, US Model, Black:	P/N 90545160
Exterior 400, EU Model. White:	P/N 90545070
Exterior 400, US Model, White:	P/N 90545170

Exterior 410™

For lighting designs requiring perfect color mixing at the fixture and no color separation, the Exterior 410 steps in with very powerful pre-mixed LEDs. At 5600 lumens, the Exterior 410 is also extremely bright and uses RGBW color mixing to provide a wide and rich palette of colors.

Features

- Super even color mixing at the fixture
- No color separation
- Extremely bright (5600 lm)
- Very low power consumption (max 139 W)
- Choice of beam angles - 19°, 22°, 36°, 65°
- Color calibration ensuring uniform colors across fixtures
- Internal power and control
- Super rugged IP65 housing
- Choice of white, black or aluminum housing
- 0 – 100% intensity control

Specifications

PHYSICAL

Length:	169 mm (6.7 in.) including cable gland
Width:	307 mm (12.1 in.)
Height:	401 mm (15.8 in.)
Weight:	7.6 kg (16.8 lbs.) including bracket

DYNAMIC EFFECTS

Color mixing:	RGBW
Red:	0 - 100%
Green:	0 - 100%
Blue:	0 - 100%
White:	0 - 100%

OPTICS

Light source:	Cree MC-E high-power emitters
White LED:	Neutral white, 5700 - 7000 K
Minimum LED lifetime:	50 000 hours (to >70% luminous output)*

Very Narrow (no diffuser), Narrow, Medium and Wide beam angles available

**Manufacturer's figure obtained under manufacturer's test conditions*

CONTROL AND PROGRAMMING

Color control modes:	RGB, RGBW, HSI, HSIC
Control options:	DMX, stand-alone, synchronized (master/slave)
DMX channels:	3 or 4 depending on mode
DMX address setting:	PC with Martin MUM software and DABS 1 hardware interface
Stand-alone trigger options:	Internal timer and/or ambient light level
Stand-alone and master/slave programming:	PC with Martin MUM software and DABS 1 hardware interface
26-bit control (internal):	RGB, RGBW, HSI, HSIC
Protocol:	USITT DMX512-A
Receiver:	RS-485
Firmware update:	Serial upload via DMX link

CONSTRUCTION

Color:	Clear anodized, black or white
Housing:	Anodized aluminum
Mounting bracket:	8 mm (0.3 in.) anodized aluminum
Front glass:	6 mm (0.2 in.) anti-reflection coated
Protection rating:	IP65

INSTALLATION

Orientation:	Any
Vertical aiming:	330°
Minimum distance to illuminated surfaces:	0.1 m (0.3 ft.)

CONNECTIONS

Power cable entry:	IP68 cable gland
Power connection:	1.8 m (5.9 ft.) cable tail
Data cable entry:	IP68 cable gland
Data connection:	1.8 m (5.9 ft.) combined input + output cable tail

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Standby power:	13 W
Power supply unit:	Integrated, auto-sensing multi-voltage
Main fuse:	2.5 AT (slow blow)

APPROVALS

EU safety:	EN 60598-1, EN 60598-2-1, IEC/EN 60825-1
EU EMC:	EN 55103-1, EN 55103-2, EN 61000-3-2, EN 61000-3-3
US safety (US model):	UL 1598
Canadian safety (US model):	CAN/CSA C.22.2 No. 250

INCLUDED ITEMS

Adjustable mounting yoke
User manual
Narrow, Medium and Wide diffusers (supplied separately with product)

ACCESSORIES

Narrow beam angle kit (diffuser sheet):	P/N 41600122
Medium beam angle kit (diffuser sheet):	P/N 41600123
Wide beam angle kit (diffuser sheet):	P/N 41600124
Exterior 200 floor stand:	P/N 91611305
Safety eyebolt:	P/N 91611239
3-pin male XLR connector, cable-type, IP65:	P/N 91611306
3-pin female XLR connector, cable-type, IP65:	P/N 91611307

ORDERING INFORMATION

Exterior 410, EU Model, Aluminum:	P/N 90545053
Exterior 410, US Model, Aluminum:	P/N 90545151
Exterior 410, EU Model, Black:	P/N 90545061
Exterior 410, US Model, Black:	P/N 90545161
Exterior 410, EU Model, White:	P/N 90545071
Exterior 410, US Model, White:	P/N 90545171

Exterior 420™

For white light designs requiring the added flexibility of color temperature control from warm to cold white, the Exterior 420 offers one of the most powerful white light units on the market, with even output across a wide color temperature range.

Features

- Extremely bright white light (5900 lm) with color temperature control
- Very broad color temperature range (2700 - 6500K)
- Very low power consumption (max 139 W)
- Choice of beam angles - 8°, 14°, 33°, 54°
- Color calibration ensuring uniform colors across fixtures
- Internal power and control
- Super rugged IP65 housing
- Choice of white, black or aluminum housing
- 0 – 100% intensity control

Specifications

PHYSICAL

Length:	169 mm (6.7 in.) including cable gland
Width:	307 mm (12.1 in.)
Height:	401 mm (15.8 in.)
Weight:	7.6 kg (16.8 lbs.) including bracket

DYNAMIC EFFECTS

Color temperature control:	Variable

OPTICS

Light source:	Cree XP-E high power emitters
Minimum LED lifetime:	50 000 hours (to >70% luminous output)*

Very Narrow (no diffuser), Narrow, Medium and Wide beam angles available*

**Manufacturer's figure obtained under manufacturer's test conditions*

CONTROL AND PROGRAMMING

Color control modes:	Color temperature control and intensity
Control options:	DMX, stand-alone, synchronized (master/slave)
DMX channels:	2
DMX address setting:	PC with Martin MUM software and DABS 1 hardware interface
Stand-alone trigger options:	Internal timer and/or ambient light level
Stand-alone and master/slave programming:	PC with Martin MUM software and DABS 1 hardware interface
26-bit control (internal):	Color temperature control and intensity
Protocol:	USITT DMX512-A
Receiver:	RS-485
Firmware update:	Serial upload via DMX link

CONSTRUCTION

Color:	Clear anodized, black or white
Housing:	Anodized aluminum
Mounting bracket:	8 mm (0.3 in.) anodized aluminum
Front glass:	6 mm (0.2 in.) anti-reflection coated
Protection rating:	IP65

INSTALLATION

Orientation:	Any
Vertical aiming:	330°
Minimum distance to illuminated surfaces:	0.1 m (0.3 ft.)

CONNECTIONS

Power cable entry:	IP68 cable gland
Power connection:	1.8 m (5.9 ft.) cable tail
Data cable entry:	IP68 cable gland
Data connection:	1.8 m (5.9 ft.) combined input + output cable tail

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Standby power:	13 W
Power supply unit:	Integrated, auto-sensing multi-voltage
Main fuse:	2.5 AT (slow blow)

APPROVALS

EU safety:	EN 60598-1, EN 60598-2-1, IEC/EN 60825-1
EU EMC:	EN 55103-1, EN 55103-2, EN 61000-3-2, EN 61000-3-3
US safety (US model):	UL 1598
Canadian safety (US model):	CAN/CSA C.22.2 No. 250

INCLUDED ITEMS

Adjustable mounting yoke
Narrow, Medium and Wide diffusers (supplied separately with product)
User manual

ACCESSORIES

Narrow beam angle kit (diffuser sheet):	P/N 41600122
Medium beam angle kit (diffuser sheet):	P/N 41600123
Wide beam angle kit (diffuser sheet):	P/N 41600124
Exterior 200 floor stand:	P/N 91611305
Safety eyebolt:	P/N 91611239
3-pin male XLR connector, cable-type, IP65:	P/N 91611306
3-pin female XLR connector, cable-type, IP65:	P/N 91611307

ORDERING INFORMATION

Exterior 420, EU Model, Aluminum:	P/N 90545051
Exterior 420, US Model, Aluminum:	P/N 90545152
Exterior 420, EU Model, Black:	P/N 90545062
Exterior 420, US Model, Black:	P/N 90545162
Exterior 420, EU Model, White:	P/N 90545072
Exterior 420, US Model, White:	P/N 90545172

Exterior 430™

Great for applications requiring just one color, the Exterior 430 offers very bright Red, Green, Blue, Warm White or Cold White options. The Exterior 430 also uses a unique color calibration system in its Red, Green and Blue units to ensure uniformity across fixtures and over time, plus the added ability to adjust colors to precisely match the look needed in your lighting design. Color fades within a narrow range, such as magenta blue turquoise, are also possible.

Features

- Extremely bright single color (up to 7000 lm)
- Calibrated Red, Green or Blue ensuring color consistency
- Adjustable color within Red, Green or Blue color ranges
- Very low power consumption (max 139 W)
- Choice of beam angles - 7.5°, 16°, 33°, 52°
- Internal power and control
- Super rugged IP65 housing
- Choice of white, black or aluminum housing
- 0-100% intensity control

Specifications

PHYSICAL

Length:	169 mm (6.7 in.) including cable gland
Width:	307 mm (12.1 in.)
Height:	401 mm (15.8 in.)
Weight:	7.6 kg (16.8 lbs.) including bracket

DYNAMIC EFFECTS

All Exterior 430 luminaires Single color or white:	0 - 100% continuous dimming
Red, green and blue luminaires Single color:	Color fine tuning available

OPTICS

Light source:	Cree XP-E high power emitters
Color temperature:	2700 K (Warm white luminaires), 6500 K (Cold white luminaires)
Minimum LED lifetime:	50 000 hours (to >70% luminous output)

Very Narrow (no diffuser), Narrow, Medium and Wide beam angles available*

** Manufacturer's figure obtained under manufacturer's test conditions*

CONTROL AND PROGRAMMING

Control options:	DMX, stand-alone, synchronized (master/slave)
DMX channels:	1 (white luminaires) or 1-4 depending on mode (red, green and blue luminaires)
DMX address setting:	PC with Martin MUM software and DABS 1 hardware interface
Stand-alone trigger options:	Internal timer and/or ambient light level
Stand-alone and master/slave programming:	PC with Martin MUM software and DABS 1 hardware interface
26-bit control (internal):	Single color intensity
Protocol:	USITT DMX512-A
Receiver:	RS-485
Firmware update:	Serial upload via DMX link

CONSTRUCTION

Color:	Clear anodized, black or white
Housing:	Anodized aluminum
Mounting bracket:	8 mm (0.3 in.) anodized aluminum
Front glass:	6 mm (0.2 in.) anti-reflection coated
Protection rating:	IP65

INSTALLATION

Orientation:	Any
Vertical aiming:	330°
Minimum distance to illuminated surfaces:	0.1 m (0.3 ft.)

CONNECTIONS

Power cable entry:	IP68 cable gland
Power connection:	1.8 m (5.9 ft.) cable tail
Data cable entry:	IP68 cable gland
Data connection:	1.8 m (5.9 ft.) combined input + output cable tail

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Standby power:	13 W
Power supply unit:	Integrated, auto-sensing multi-voltage
Main fuse:	2.5 AT (slow blow)

APPROVALS

EU safety:	EN 60598-1, EN 60598-2-1, IEC/EN 60825-1
EU EMC:	EN 55103-1, EN 55103-2, EN 61000-3-2, EN 61000-3-3
US safety (US model):	UL 1598
Canadian safety (US model):	CAN/CSA C.22.2 No. 250

INCLUDED ITEMS

Adjustable mounting yoke
Narrow, Medium and Wide diffusers (supplied separately with product)
User manual

ACCESSORIES

Narrow beam angle kit (diffuser sheet):	P/N 41600122
Medium beam angle kit (diffuser sheet):	P/N 41600123
Wide beam angle kit (diffuser sheet):	P/N 41600124
Exterior 200 floor stand:	P/N 91611305
Safety eyebolt:	P/N 91611239
3-pin male XLR connector, cable-type, IP65:	P/N 91611306
3-pin female XLR connector, cable-type, IP65:	P/N 91611307

ORDERING INFORMATION

The Exterior 430 is a custom product. Please contact your Martin sales contact or customer care representative at time of ordering to give details of the LED color you require.

Exterior 430 Red, EU Model/US Model, Aluminum:	P/N 90545052 / P/N 90545153
Exterior 430 Red, EU Model/US Model, Black:	P/N 90545063 / P/N 90545163
Exterior 430 Red, EU Model/US Model, White:	P/N 90545073 / P/N 90545173
Exterior 430 Green, EU Model/US Model, Aluminum:	P/N 90545054 / P/N 90545154
Exterior 430 Green, EU Model/US Model, Black:	P/N 90545064 / P/N 90545164
Exterior 430 Green, EU Model/US Model, White:	P/N 90545074 / P/N 90545174
Exterior 430 Blue, EU Model/US Model, Aluminum:	P/N 90545055 / P/N 90545155
Exterior 430 Blue, EU Model/US Model, Black:	P/N 90545065 / P/N 90545165
Exterior 430 Blue, EU Model/US Model, White:	P/N 90545075 / P/N 90545175
Exterior 430 Cold White, EU Model/US Model, Aluminum:	P/N 90545056 / P/N 90545156
Exterior 430 Cold White, EU Model/US Model, Black:	P/N 90545066 / P/N 90545166
Exterior 430 Cold White, EU Model/US Model, White:	P/N 90545076 / P/N 90545176
Exterior 430 Warm White, EU Model/US Model, Aluminum:	P/N 90545057 / P/N 90545157
Exterior 430 Warm White, EU Model/US Model, Black:	P/N 90545067 / P/N 90545167
Exterior 430 Warm White, EU Model/US Model, White:	P/N 90545077 / P/N 90545177

Exterior 600™

The Exterior 600 is the leading 575 W intelligent luminaire for dynamic and creative illumination of the built and natural environments.

Features

- 575 W metal halide lamp
- CMY color mixing system
- Dynamic zoom for variable beam angles: 9°-12° / 11°- 27°
- Choice of optical systems: very narrow, narrow, medium, wide or very wide
- 0-100% intensity control
- High optical performance: uniform distribution of light and color
- Ellipsoidal beam shaping and frost filter options
- Weatherproof rating: IP65
- DMX, stand-alone, synchronized (master/slave)
- Onboard light sensor

Specifications

PHYSICAL

Length:	636 mm (25.0 in.)
Width:	375 mm (14.8 in.)
Height:	421 mm (16.6 in.)
Weight:	48 kg (105.8 lbs.)

LAMP

Type:	575 W metal halide
Approved lamps:	Philips MSD 575, Osram HSD 575/60
Socket:	GX 9.5
Control:	Automatic and/or remote on/off

DYNAMIC EFFECTS

Color mixing:	CMY
Cyan:	0 - 100%
Magenta:	0 - 100%
Yellow:	0 - 100%
Color wheel:	Red, green, blue, CTC (as standard) + open positions
Dimmer:	0 - 100%
Shutter:	Strobe effect variable up to 8 Hz
Frost:	On/off
Zoom:	9°- 12° / 11°- 27°
Beamshaper:	+/- 45° from vertical

CONTROL AND PROGRAMMING

Control options:	DMX, stand-alone, synchronized (master/slave)
DMX channels:	8/9
Stand-alone trigger options:	Internal timer and/or ambient light level
Stand-alone memory:	20 scenes
DMX address setting:	MUM
Stand-alone and master/slave programming:	MUM
Protocol:	USITT DMX512/1990
Receiver:	RS-485

CONSTRUCTION

Housing:	Aluminum
Finish:	Clear anodized
Mounting bracket:	6 mm (0.2 in.) stainless steel
Front glass:	6 mm (0.2 in.) anti-reflection coated (except VN and VW models)
Protection rating:	IP 65

INSTALLATION

Orientation:	Any
Horizontal aiming:	+/- 25°
Vertical aiming (pedestal mounted):	+/- 40°

ELECTRICAL

AC power:	208 V, 60 Hz / 230 V, 50 Hz / 245 V, 50 Hz / 277 V, 60 Hz
Standby power:	24W

THERMAL

Maximum ambient temperature (Ta max.):	40° C (104° F)
Minimum ambient temperature (Ta min.):	-20° C (-4° F), power must be maintained below 0° C (32° F)
Maximum surface temperature, steady state, Ta=40° C:	80° C (176° F)
Cooling:	Convection

APPROVALS

US safety:	UL 1573
Canadian safety:	CAN/CSA C22.2 No. 166
EU safety:	EN 60598-2-3, EN 60598-2-5
EU EMC:	EN 55015, EN 55103-1, EN 61547

INCLUDED ITEMS

Philips MSD 575 lamp:	P/N 97010202

ACCESSORIES

Elliptical beamshaper (for use with VN model only, gives 12° x 22° half-peak angle):	P/N 91610028
Permanent 5500 - 4200 K CTC kit:	P/N 91611036
Snoot/barndoor kit:	P/N 91611029
Extensions to Snoot/barndoor kit:	P/N 91611030
Safety eyebolt:	P/N 91611239

ORDERING INFORMATION

Exterior 600, VN, 208 V, 60 Hz:	P/N 90505024
Exterior 600, VN, 230 V, 50 Hz:	P/N 90505020
Exterior 600, VN, 245 V, 50 Hz:	P/N 90505022
Exterior 600, VN, 277 V, 60 Hz:	P/N 90505026
Exterior 600, N, 208 V, 60 Hz:	P/N 90505044
Exterior 600, N, 230 V, 50 Hz:	P/N 90505040
Exterior 600, N, 245 V, 50 Hz:	P/N 90505042
Exterior 600, N, 277 V, 60 Hz:	P/N 90505046
Exterior 600, M, 208 V, 60 Hz:	P/N 90505004
Exterior 600, M, 230 V, 50 Hz:	P/N 90505000
Exterior 600, M, 245 V, 50 Hz:	P/N 90505002
Exterior 600, M, 277 V, 60 Hz:	P/N 90505006
Exterior 600, W, 208 V, 60 Hz:	P/N 90505064
Exterior 600, W, 230 V, 50 Hz:	P/N 90505060
Exterior 600, W, 245 V, 50 Hz:	P/N 90505062
Exterior 600, W, 277 V, 60 Hz:	P/N 90505066
Exterior 600, VW, 208 V, 60 Hz:	P/N 90505084
Exterior 600, VW, 230 V, 50 Hz:	P/N 90505080
Exterior 600, VW, 245 V, 50 Hz:	P/N 90505082
Exterior 600, VW, 277 V, 60 Hz:	P/N 90505086

VN = Very Narrow, N = Narrow, M = Medium, W = Wide, VW = Very Wide

Exterior 1200 Wash™

The Exterior 1200 Wash is a powerful 1200 W luminaire designed for spectacular illumination of high-rise structures, bridges and landmark architecture.

Features

- 1200 W metal halide lamp
- CMY color mixing system
- Dynamic zoom for variable beam angles: 8°- 16° / 12°- 26°
- Choice of optical systems: narrow, medium, wide or very wide
- 0-100% intensity control
- High optical performance: uniform distribution of light and color
- Weatherproof rating: IP65
- DMX, stand-alone, synchronized (master/slave)
- Onboard address setting: no extra devices required

Specifications

PHYSICAL

Length:	860 mm (33.9 in.)
Width:	448 mm (17.6 in.)
Height:	620 mm (24.4 in.)
Weight:	68 kg (149.9 lbs.)
Effective Projected Area (EPA):	0.6 m^2

LAMP

Type:	1200 W metal halide
Fitted as standard:	Philips MSD 1200
Socket:	G22
Control:	Automatic and/or remote on/off

DYNAMIC EFFECTS

Color mixing:	CMY
Cyan:	0 - 100%
Magenta:	0 - 100%
Yellow:	0 - 100%
Color wheel:	Red, green, blue, CTC (as standard) + open positions
Dimmer:	0 - 100%
Zoom:	8°- 16° / 12°- 26°

CONTROL AND PROGRAMMING

Control options:	DMX, stand-alone, synchronized (master/slave)
DMX channels:	8
Stand-alone trigger options:	Internal timer and/or ambient light level
Stand-alone memory:	20 scenes
DMX address setting:	MUM, onboard control panel
Stand-alone programming:	MUM, onboard control panel
Protocol:	USITT DMX512-A
Receiver:	RS-485

CONSTRUCTION

Housing:	Aluminum
Finish:	Clear anodized
Color:	Light grey (RAL 9006)
Front glass:	6 mm (0.2 in.) anti-reflection coated
Protection rating:	UL wet location, main enclosure designed to IP65

INSTALLATION

Orientation:	Any (air intake must face down)
Vertical aiming:	+/- 90°

ELECTRICAL

AC power:	200/208/220/230/240/250/277 V nominal, 50/60 Hz
Main fuse:	17.5 AT (slow blow)
Ballast:	Magnetic
Standby power:	18 W at 230 V

THERMAL

Maximum ambient temperature (Ta max.):	45° C (113° F)
Minimum ambient temperature (Ta min.):	-20° C (-4° F),power must be maintained below 0° C (32° F)
Maximum surface temperature, steady state, Ta=45° C:	70° C (158° F)
Total heat dissipation (calculated, +/- 10%):	4950 BTU/hr.
Cooling:	Forced air, integrated air/air heat exchanger, IP65 barrier

APPROVALS

US safety:	UL 1598
Canadian safety:	CAN/CSA C22.2 No. 250
EU safety:	EN 60598-1, EN 61347-1
EU EMC:	EN 55015, EN 55103-1, EN 61000-3-2

INCLUDED ITEMS

Philips MSD 1200 lamp:	P/N 97010313

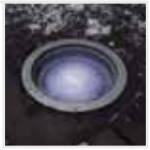
ACCESSORIES

Beamshaper lens:	P/N 91610081
Narrow-angle lens kit:	P/N 91610088
Medium-angle lens kit:	P/N 91610089
Wide-angle lens kit:	P/N 91610090
Very wide-angle lens kit:	P/N 91610091
Permanent CTC kit:	P/N 91611258
Snoot/barndoor kit:	P/N 91611257
Dichroic color filters (install in color wheel)	

ORDERING INFORMATION

Exterior 1200 Wash, Narrow:	P/N 90504010
Exterior 1200 Wash, Medium:	P/N 90504020
Exterior 1200 Wash, Wide:	P/N 90504030
Exterior 1200 Wash, Very Wide:	P/N 90504040

Inground 200™



The Inground 200 series offers the benefits of dynamic light and discreet buried installation combined in a simple, easy-to-use system of programmable 150-watt luminaires.

Features

- 150 W metal halide lamp
- Choice of 2 color systems: Single-color or full spectrum CMY
- Choice of optical systems: medium, wide, very wide or wallwash
- 0-100% intensity control
- High optical performance: uniform distribution of light and color
- Weatherproof rating: IP65 and IP67
- Full drive-over capability
- Low surface temperature for installation in pedestrian areas
- Extensive range of optical accessories
- DMX, stand-alone, synchronized (master/slave)

Specifications

PHYSICAL

Height:	496 mm (19.5 in.)
Trim ring outer diameter:	340 mm (13.4 in.)
Trim ring thickness:	7 mm (0.3 in.)
Housing top flange outer Ø:	310 mm (12.2 in.)
Weight:	20 kg (44.1 lbs.)
Weight resistance (in installation sleeve with stable groundwork):	5000 kg (11,023.1 lbs.)
Front glass weight resistance (load from pneumatic tire):	5000 kg (11,023.1 lbs.)
Installation sleeve	
Installation sleeve height:	600 mm (23.6 in.)
Installation sleeve tube external Ø:	334 mm (13.1 in.)
Installation sleeve base flange external Ø:	416 mm (16.4 in.)

LAMP

Type:	150 W metal halide
Approved lamps:	Philips CDM SA/T 150 W/942, Philips CDM-T 150 W/830, Osram HCI-T 150 W/WDL, Osram HCI-T 150 W/NDL
Socket:	G12
Control:	Automatic and/or remote on/off

DYNAMIC EFFECTS [INGROUND 200 CMY]

Color mixing:	CMY
Cyan:	0 - 100%
Magenta:	0 - 100%
Yellow:	0 - 100%
Mechanical dimmer:	0 - 100%

CONTROL AND PROGRAMMING (INGROUND 200 CMY)

Control options:	DMX, stand-alone, synchronized (master/slave)
DMX channels:	6
Stand-alone trigger options:	Internal timer
Stand-alone memory:	20 scenes
DMX address setting:	Martin MUM™ application running on Windows PC
Stand-alone and master/slave programming:	Martin MUM™ application running on Windows PC
Protocol:	USITT DMX512/1990
Receiver:	RS-485

CONSTRUCTION

Housing:	Aluminium
Finish:	Black anodized
Trim ring:	Stainless steel
Installation sleeve:	Acid-resistant stainless steel
Protection rating:	IP65/67

INSTALLATION

Orientation:	Uplight
Minimum distance to combustible materials:	1 m (3.3 ft.)
Minimum distance to illuminated surfaces:	0.5 m (1.6 ft.)

CONNECTIONS

Power input:	3 m (9.8 ft.) hard-wired cable tail
DMX data in/out (CMY models):	3 m (9.8 ft.) hard-wired cable tail

ELECTRICAL

AC power:	210/277 V nominal, 60 Hz; 230 V nominal, 50 Hz

THERMAL

Maximum ambient temperature (Ta max.):	35° C (95° F), higher if installation is approved by Martin Architectural
Minimum ambient temperature (Ta min.):	20° C (-4° F), power must be maintained below 0° C (32° F)
Maximum surface temperature, steady state, Ta=40° C:	80° C (176° F)
Cooling:	Internal fan, conduction via installation site fill material

APPROVALS

EU EMC:	EN 55015, EN 55103-1, EN 61547
EU safety:	EN 60598-2-5
Canadian safety:	CAN/CSA C22.2 No. 250
US safety:	UL 1598

INCLUDED ITEMS

Philips CDM-SA/T 150 W lamp:	P/N 97010111

ACCESSORIES

Installation sleeve, bevelled mount:	P/N 91611194
Installation sleeve, flush mount:	P/N 91611215
25 kg (55.1 lbs.) rinsed, dried sand for installation:	P/N 91611237
Anti-glare kit, medium configuration (ring louver):	P/N 91611202
Anti-glare kit, wallwash configuration:	P/N 91611197
Anti-skid frontglass (circular etched):	P/N 91611238
Anti-skid frontglass (design etched):	P/N 91611198
Beamshaper module:	P/N 91611207
Rock guard kit, aluminium:	P/N 91611209
Rock guard kit, brass:	P/N 91611208
Rock guard kit, stainless steel:	P/N 91611199
Tamperproof trim ring screw set with key:	P/N 91611200
Trim ring kit, bevelled, brass:	P/N 91611211
Trim ring kit, bevelled, aluminium:	P/N 91611210
Trim ring kit, flush mount, aluminium:	P/N 91611213
Trim ring kit, flush mount, brass:	P/N 91611214
Trim ring kit, flush mount, stainless steel:	P/N 91611212

For full ordering information please consult www.martin.com

Exterior 400 Image Projector™

The Exterior 400 Image Projector is a powerful tool for integrating textures, patterns and graphics in outdoor lighting designs. At over 7000 lumens, the fixture can be used for bright and dynamic logo projection, as well as precision framing.

Using advanced LED technology, the Exterior 400 Image Projector stands apart for its energy efficiency, compact size and incredible design flexibility.

Features

- Bright and energy efficient LED projection (+7000 lumens)
- Up to six interchangeable gobos / patterns
- Up to eight interchangeable colors
- Rugged IP65 housing
- Narrow, medium and wide beam angle options
- Pre-programmable effects, such as: continuous image rotation, color scrolling, focus, dimming

Specifications

PHYSICAL

Length:	365 mm (14.4 in.) including cable gland
Width:	307 mm (12.1 in.) including mounting bracket
Height:	421 mm (16.6 in.) including mounting bracket
Weight:	14 kg (30.9 lbs.)

DYNAMIC EFFECTS

Color wheel:	8 interchangeable dichroic filters + open, full and split colors, continuous rotation, random color
Rotating gobo wheel:	6 interchangeable gobos + open, indexing, continuous gobo rotation & scrolling, shake
Motorized iris:	0 - 100%, pulse effects
Electronic dimming:	0 - 100% dimming, strobe effects
Motorized focus:	2 m (6.6 ft.) to infinity
Pre-programmed effects:	Full range of macro effects

OPTICS

Light source:	7 x Luminus CBT-90 (50 W) LEDs
White LED:	Neutral white, 3500 - 4500 K, CRI 75
Minimum LED lifetime (to 50% of initial output level):	30 000 hours at full intensity
	Narrow, medium and wide available

CONTROL AND PROGRAMMING

Control options:	DMX, stand-alone, synchronized (master/slave)
DMX channels:	TBA
DMX address setting:	PC with Martin MUM software and DABS 1 hardware interface
Stand-alone trigger options:	Internal timer and/or ambient light level
Stand-alone and master/slave programming:	PC with Martin MUM software and DABS 1 hardware interface
Protocol:	USITT DMX512-A
Receiver:	RS-485
Firmware update:	Serial upload via DMX link

PHOTOMETRIC DATA

Luminous flux:	7400 lm (with 25° lens)
One-tenth peak angle:	15°, 25° and 40° options

CONSTRUCTION

Color:	Clear anodized, white, custom colors to special order
Housing:	Anodized aluminum
Mounting bracket:	8 mm (0.3 in.) anodized aluminum
Front glass:	6 mm (0.2 in.) anti-reflection coated
Protection rating:	IP65

INSTALLATION

Orientation:	Any
Vertical aiming:	330°
Minimum distance to illuminated surfaces:	0.1 m (0.3 ft.)

CONNECTIONS

Power cable entry:	IP68 cable gland
Power connection:	1.8 m (5.9 ft.) cable tail
Data cable entry:	IP68 cable gland
Data connection:	1.8 m (5.9 ft.) combined input + output cable tail

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Standby power:	13 W
Power supply unit:	Integrated, auto-sensing multi-voltage

THERMAL

Cooling:	Convection
Maximum ambient temperature (Ta max.):	5° C (113° F)
Minimum ambient temperature (Ta min.):	30° C (-22° F), power must be maintained below 0° C (32° F)
Maximum surface temperature, steady state, Ta=40° C (104° F):	75° C (167° F)
Total heat dissipation (calculated, +/- 10%):	1570 BTU/hr.

APPROVALS

EU safety:	EN 60598-1, EN 60598-2-1, IEC/EN 60825-1
EU EMC:	EN 55103-1, EN 55103-2, EN 61000-3-2, EN 61000-3-3
US safety (US model), pending:	UL 1598
Canadian safety (US model), pending:	CAN/CSA C.22.2 No. 250

INCLUDED ITEMS

Adjustable mounting yoke
User manual

ACCESSORIES

Safety eyebolt:	P/N 91611239
3-pin male XLR connector, cable-type, IP65:	P/N 91611306
3-pin female XLR connector, cable-type, IP65:	P/N 91611307

ORDERING INFORMATION

Exterior 400 IP EU with 25° Lens:	P/N 90507050
Exterior 400 IP US with 25° Lens:	P/N 90507060

Custom colors available by special order - please contact your Martin distributor for details

Exterior 1200 Image Projector™

The Exterior 1200 Image Projector is a powerful 1200-watt luminaire designed for projecting animated images and effects onto structures and landmark architecture.

Features

- 1200 W metal halide lamp
- CMY color mixing system
- Color wheel with primary colors red, green and blue
- 0-100% intensity control
- High optical performance: uniform distribution of light and color
- Choice of narrow, medium or wide beam options
- Dynamic zoom for variable beam angles: 11°- 17° / 17°- 34° / 30°- 48°
- Motorized zoom and focus
- 4 D-size gobo slots for projecting graphic images
- Gobo animation system for creating animated lighting effects
- Weatherproof rating: IP65
- DMX, stand-alone, synchronized (master/slave)
- Onboard address setting: no extra devices required

Specifications

PHYSICAL

Length:	1006 mm (39.6 in.)
Width:	448 mm (17.6 in.)
Height:	620 mm (24.4 in.)
Weight:	90 kg (198.4 lbs.)
Effective Projected Area (EPA):	0.8 m^2

LAMP

Type:	1200 W metal halide
Fitted as standard:	Philips MSD 1200
Socket:	G22
Control:	Automatic and/or remote on/off

DYNAMIC EFFECTS

Color mixing:	CMY
Color wheel:	4 slots for interchangeable filters
Rotating gobo wheel:	4 interchangeable gobo positions (one required for open), gobo indexing, continuous gobo rotation
Gobo animation:	Interchangeable animation wheel, indexing, continuous rotation with variable angle, speed and direction
Mechanical dimmer/shutter:	0 - 100% variable dimming, instant open and blackout
Focus:	3 m (9.8 ft.) to infinity
Zoom:	Narrow 12° - 18°, medium 18° - 36°, wide 31° - 51°, cut-off angles

CONTROL AND PROGRAMMING

Control options:	DMX, stand-alone, synchronized (master/slave)
DMX channels:	17
DMX address setting:	MUM, onboard control panel
16-bit control:	Mechanical dimmer, rotating gobo indexing/speed, focus, zoom
Stand-alone trigger options:	Internal timer and/or ambient light level
Stand-alone memory:	20 scenes

CONSTRUCTION

Housing:	Aluminum
Finish:	Clear anodized
Color:	Light grey (RAL 9006)
Front glass:	6 mm (0.2 in.) anti-reflection coated
Color wheel filters:	1.2 mm (0.05 in.), dichroic, hexangular
Protection rating:	UL wet location, main enclosure designed to IP65

GOBOS

Material:	Metal or glass
Size:	D
Outside diameter:	53.3 mm (2.1 in.) +0/- 0.3 mm (0.01 in.)
Maximum image diameter:	48 mm (1.9 in.)
Maximum thickness:	2 mm (0.08 in.)
Image orientation:	True from lamp side

INSTALLATION

Orientation:	Any (air intake must face down)
Vertical aiming:	+/- 90°

ELECTRICAL

AC power:	200/208/220/230/240/250/277 V nominal, 50/60 Hz
Main fuse:	17.5 AT (slow blow)
Ballast:	Magnetic
Standby power:	20 W

THERMAL

Cooling:	Forced air, integrated air/air heat exchanger, IP65 barrier
Maximum ambient temperature (Ta max.):	45° C (113° F)
Minimum ambient temperature (Ta min.):	-20° C (-4° F), power must be maintained below 0° C (32° F)
Maximum surface temperature, steady state, Ta=45° C:	70° C (158° F)
Total heat dissipation (calculated, +/- 10%):	4950 BTU/hr.

APPROVALS

US safety:	UL 1598
Canadian safety:	CAN/CSA C22.2 No. 250
EU safety:	EN 60598-1, EN 61347-1
EU EMC:	EN 55015, EN 55103-1, EN 61000-3-2

ACCESSORIES

Narrow-angle lens kit:	P/N 91610083
Medium-angle lens kit:	P/N 91610084
Wide-angle lens kit:	P/N 91610085
Permanent 5500 - 4200 K CTC kit:	P/N 91611273
Permanent 5500 - 3400 K CTC kit:	P/N 91611272
Snoot/barndoor kit:	P/N 91611257
Beamshaper lens:	P/N 91610082

ORDERING INFORMATION

Exterior 1200 Image Projector, Narrow:	P/N 90504065
Exterior 1200 Image Projector, Medium:	P/N 90504075
Exterior 1200 Image Projector, Wide:	P/N 90504085

FiberSource QFX150™

The FiberSource QFX150 is an automated 150-watt color-changing luminaire for illuminating fiber optic cables in permanent installations. It features a color wheel with 9 interchangeable colors and smooth, full-range mechanical dimming.

Features

- 150 W metal halide lamp
- Color wheel with up to 9 interchangeable colors (4 are included)
- 0-100% intensity control
- Up to 800 fiber cables (1 mm)
- Blackout and strobe functionality
- Twinkle wheel for sparkling effects
- DMX or stand-alone control

Specifications

PHYSICAL

Length:	330 mm (13.0 in.)
Width:	213 mm (8.4 in.)
Height:	199 mm (7.8 in.)
Weight:	10.4 kg (22.9 lbs.)

LAMP

Type:	150 W metal halide
Approved lamps:	Osram HQI-R 150
Socket:	Separate connector for integral lamp wires
Control:	Remote on/off

DYNAMIC EFFECTS

Color wheel:	9 positions + open, continuous rotation
Twinkle effect:	Removable section, continuous variable-speed rotation
Dimmer:	0 - 100%

CONTROL AND PROGRAMMING

Control options:	DMX, stand-alone, synchronized (master/slave)
DMX channels:	5
DMX address setting:	DIP switch
Stand-alone and master/slave programming:	DIP switch

CONSTRUCTION

Housing:	Steel and aluminum
Finish:	Electrostatic powder-coated
Color:	Black (RAL 9005)
Protection rating:	IP 20

INSTALLATION

Orientation:	Horizontal
Minimum distance to combustible materials:	0.1 m (0.3 ft.)
Minimum clearance around fan and air vents:	0.1 m (0.3 ft.)

ELECTRICAL

AC power:	100/120/210/230/250 V, 50/60 Hz
Main fuse:	5 AT (slow blow)

THERMAL

Maximum ambient temperature (Ta max.):	40° C (104° F)
Maximum surface temperature, steady state, Ta=40° C:	58° C (136° F)
Cooling:	Forced air cooling system
Total heat dissipation (calculated, +/- 10%):	700 BTU/hr.

APPROVALS

US safety:	UL 153
Canadian safety:	CAN/CSA C22.2 No. 12
EU safety:	EN 60598-2-17
EU EMC:	EN 55015, EN 55103-1, EN 61547

INCLUDED ITEMS

Osram HQI-R 150 lamp:	P/N 97010101
3 m (9.8 ft.) power cable, 3-pin IEC:	P/N 11501013
5 m (16.4 ft.) data cable, 3-pin XLR:	P/N 11820008
Blue 108 color filter on adaptor:	P/N 62327030
Yellow 603 color filter on adaptor:	P/N 62327031
Green 206 color filter on adaptor:	P/N 62327033
Red 308 color filter on adaptor:	P/N 62327032

ACCESSORIES

Fiber adaptor, 75-350 pcs.: (25 pcs. interval) Ø 1 mm (0.04 in.) fiber, D= 30 mm (1.2 in.):	P/N 91611035
G-clamp:	P/N 91602003
Half-coupler clamp:	P/N 91602005
Optional color filters:	See user manual

ORDERING INFORMATION

FiberSource QFX 150:	P/N 90522000

FiberSource CMY150™

The FiberSource CMY150 is an automated 150-watt color-changing luminaire for illuminating fiber optic cables in indoor and outdoor installations. It features seamless CMY color mixing and full-range continuous dimming.

Features

- 150 W metal halide lamp
- CMY color mixing system
- 0-100% intensity control
- Up to 800 fiber cables (1 mm)
- Weatherproof rating: IP44
- DMX, stand-alone, real time clock activation

Specifications

PHYSICAL

Length:	398 mm (15.7 in.)
Width:	195 mm (7.7 in.)
Height:	197 mm (7.8 in.)
Weight:	8 kg (17.6 lbs.)

LAMP

Type:	150 W metal halide
Approved lamps:	Philips CDM-SA/R 150
Socket:	Separate connector for integral lamp wires
Control:	Automatic and/or remote on/off

DYNAMIC EFFECTS

Color mixing:	CMY
Cyan:	0 - 100%
Magenta:	0 - 100%
Yellow:	0 - 100%
Dimmer:	0 - 100%

CONTROL AND PROGRAMMING

Control options:	DMX, stand-alone, synchronized (master/slave)
DMX channels:	7
Stand-alone trigger options:	Internal timer and/or ambient light level
Stand-alone memory:	20 scenes
DMX address setting:	MUM
Stand-alone and master/slave programming:	MUM
Protocol:	USITT DMX512/1990
Receiver:	RS-485

CONSTRUCTION

Housing:	Plastic, ABS
Color(s):	Anthracite gray (RAL 7016)
Protection rating:	IP 44

INSTALLATION

Indoor orientation:	Any
Outdoor orientation:	Horizontal
Minimum distance to combustible materials:	0.1 m (0.3 ft.)
Minimum clearance around fan and air vents:	0.2 m (0.7 ft.)

ELECTRICAL

AC power:	100/120/210/230/250 V, 50/60 Hz
Main fuse:	5 AT (slow blow)

THERMAL

Maximum ambient temperature (Ta max.):	40° C (104° F)
Maximum surface temperature, steady state, Ta=40° C:	70° C (158° F)
Cooling:	Filtered forced air cooling system
Total heat dissipation (calculated, +/- 10%):	750 BTU/hr.

APPROVALS

US safety:	UL 1598
Canadian safety:	CAN/CSA C22.2 No. 250
EU safety:	EN 60598-2-17
EU EMC:	EN 55015, EN 55103-1, EN 61547

INCLUDED ITEMS

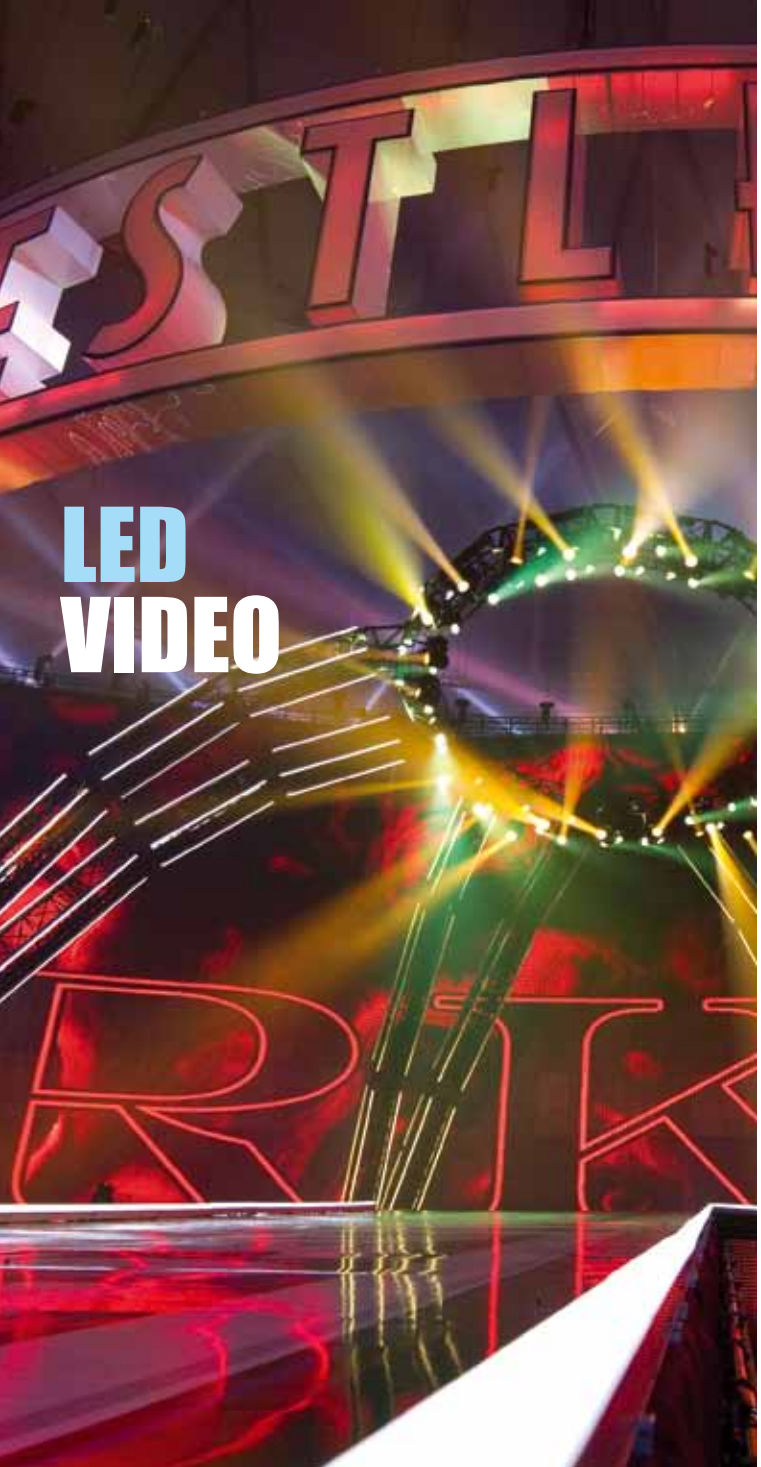
Philips CDM-SA/R 150 lamp:	P/N 97010113

ACCESSORIES

Fiber adaptor, 350-800 pcs. (50 pcs. interval) Ø 1mm fiber, D= 38mm:	P/N 91611034
Fiber adaptor, 75-350 pcs.: (25 pcs. interval) Ø 1 mm (0.04 in.) fiber, D= 30 mm (1.2 in.):	P/N 91611035
10 m (32.8 ft.) Light Fiber LF120HL, Ø 12 mm (0.5 in.):	P/N 91611070
20 m (65.6 ft.) Light Fiber LF120HL, Ø 12 mm (0.5 in.):	P/N 91611071
60 m (196.9 ft.) Light Fiber LF120HL, Ø 12 mm (0.5 in.):	P/N 91611072

ORDERING INFORMATION

FiberSource CMY 150, 230 V, 50 Hz:	P/N 90523000
FiberSource CMY 150, 120 V, 60 Hz:	P/N 90523100

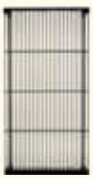


LED VIDEO

- EC-10
- EC-20
- LC Plus Series

- VC-Grid
- VC-Dot 1
- VC-Dot 4
- VC-Dot 9
- VC-Feeder
- P3 PowerPort 1500

- P3-100 System Controller
- P3-200 System Controller
- P3-PC System Controller

	EC-10™	EC-20™	LC Plus Series™
			
PHOTOMETRIC DATA			
Pixel Pitch	10,00mm	20,00mm	40,00mm
LEDs	Multicolor SMD	Multicolor SMD	Single Color PTH
Brightness	3000nit	4000nit	3000nit
Refresh Rate	2250Hz	2250Hz	300Hz
Color Depth	16bit per color	16bit per color	14bit per color
Calibration	Pixel-Level Brightness and Color	Pixel-Level Brightness and Color	Pixel-Level Brightness and Color
DIMENSIONS			
Panel Size	480x720mm	480x720mm	1000x2000mm
Resolution per Panel	48x72pixels	24x36pixels	25x50pixels
Pixels per Panel	3456	864	1250
Pixels per SQM	10.000	2.500	625
Transparency	0%	40%	60%
MECHANICAL			
Integrated Curvability	Stepless up 15 degrees concave	Stepless up 20 degrees concave or convex	None
Viewing Angle Horizontal	> 140 degrees	> 140 degrees	> 100 degrees
Viewing Angle Vertical	> 140 degrees	> 140 degrees	> 40 degrees
Weight per Panel	13,2kg	10,3kg	22,4kg
Weight per SQM	38,2kg	29,8kg	11,2kg
IP Rating	IP65	IP65	IP65
PROCESSING			
P3 System Controller	P3-100, P3-200 or P3-PC	P3-100, P3-200 or P3-PC	P3-100, P3-200 or P3-PC

	P3-PC™	P3-100™	P3-200™
VIDEO INPUTS			
Composite Video	No	Yes, up to 720x576	No
S-Video	No	Yes, up to 720x576	No
Component Video	No	Yes, up to 720x576	No
DVI-D	No	Yes, up to 1280x1024	Yes, up to 1920x1080
SDI	No	No	Yes, up to 1920x1080
On-Screen-Capture	Yes	No	No
VIDEO PROCESSING			
De-Interlacing	No	Yes	Yes
Image Scaling	Yes	Yes	Yes
Image Cropping	Yes	Yes	Yes
Saturation Control	Yes	Yes	Yes
Sharpness Control	Yes	Yes	Yes
Brightness Control	Yes	Yes	Yes
Contrast Control	Yes	Yes	Yes
Lowlight Control	Yes	Yes	Yes
Gamma Curve Control	Yes	Yes	Yes
Color Temperature Control	Yes	Yes	Yes
OUTPUT			
P3	PC Hardware Dependant	Gigabit Ethernet	Gigabit Ethernet
Pixels	20.000	500.000	500.000
Expansion Stacking	No	Yes	Yes
Redundant Stacking	Yes	Yes	Yes
CONTROL INTERFACES			
DMX Input	No	Yes	Yes
Kinesys Input	No	Yes	Yes
Status Webpage	No	Yes	Yes
FORM-FACTOR			
Dimensions	PC Hardware Dependant	Rackmount 2U	Rackmount 2U
USER INTERFACE			
Monitor	PC Hardware Dependant	VGA	VGA
Keyboard	PC Hardware Dependant	USB	USB
Mouse	PC Hardware Dependant	USB	USB

EC-10™

The EC-10 is a high performance, true 10 mm pixel pitch LED display panel that teams with Martin's EC-20 to form a fully compatible EC family of LED displays that can be mixed and matched for ultimate design creativity.

Featuring the same award-winning, lightweight and cable-free design for rapid deployment, the EC-10 is 100% compatible with the EC-20 in terms of color, setup, curving, control and processing, even accessories, allowing for seamless, mixed resolution visuals in one system.

Features

- High contrast and brightness (3000 Nit)
- Wide viewing angle (140°)
- High refresh rate (2250 Hz)
- Outstanding image quality
- IP65 protection
- Full compatibility with EC-20
- Fast and easy to assemble, no tools, no cables
- Modular for easy serviceability
- P3 System Controller, easy setup

Specifications

PHYSICAL

EC-10 Video Display Panel	
Width:	480 mm (18.9 in.)
Depth:	100 mm (3.9 in.)
Height:	720 mm (28.3 in.)
Weight:	13,2 kg (29 lbs.)
EC Series Single Header	
Width:	480 mm (18.9 in.)
Depth:	85 mm (3.3 in.)
Height:	120 mm (4.7 in.)
Weight:	4.7 kg (10.4 lbs.)
EC Series Double Header	
Width:	960 mm (37.8 in.)
Depth:	100 mm (3.9 in.)
Height:	130 mm (5.1 in.)
Weight:	15.4 kg (34.0 lbs.)
EC Series Triple Header	
Width:	1440 mm (56.7 in.)
Depth:	100 mm (3.9 in.)
Height:	130 mm (5.1 in.)
Weight:	23.1 kg (50.9 lbs.)

CONTROL/USER INTERFACE

Device status:	Status indicator LED
Setup testing:	Local test patterns

VIDEO PROCESSING

P3 System Controller:	P3-100, P3-200 or P3-PC

P3 SIGNAL PROTOCOL

Signal type:	Gigabit Ethernet
Protocol:	Proprietary Martin P3
Hot pluggable:	Yes, electrically isolated at all connections
Cable type:	Ethernet, CAT 5e or better
Cable length:	Up to 100 m (328.1 ft.) between any 2 devices, extendable with Ethernet switch

CONSTRUCTION

Panel frames:	Aluminum
LED modules per panel:	18
Color:	Matt black
Protection rating:	IP65, NEMA 4

INSTALLATION

Orientation:	Individually mounted panel any angle; suspended column vertical only
Max. suspended in one column:	Max. sixteen EC Series panels
Panel interlocking:	Quick-release mounting system

CONNECTIONS

Power input to Header:	1.5 m (4.9 ft.) cable tail w/o power plug
P3 data input to Header:	Accepts an Amphenol IP67-rated Ethernet cable connector
Panel power and data interconnection:	Integrated connector system

ELECTRICAL

AC power:	200-240 V nominal, 50/60 Hz
Power supply unit:	Integrated, auto-sensing multi-voltage
Main fuse:	2 x 3.15 AT
Peak power consumption (approx., at full intensity, full white):	330 W per panel
Typical power consumption (with typical video content):	110 W per panel

APPROVALS

EU safety:	EN 60950-1, EN 60529
EU EMC:	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
US safety:	ANSI/UL 60950-1
Canadian safety:	CAN/CSA 60950-1

INCLUDED ITEMS

Included with EC-10 panel:	1 x EC-10 video display panel
Included with 8-unit EC Series Flightcase:	Safety and installation guide

ACCESSORIES

EC Series Curving Installation Kit (50 locking knobs, 25 'bananas') in cardboard box:	P/N 90354270
EC Series panel clamp:	P/N 90354340
EC Series Input Connector:	P/N 90354350
EC Series Output Connector:	P/N 90354330
1.5 m (4.9 ft.) Ethernet CAT 5e data cable with IP67-rated RJ-45 connectors:	P/N 11840147
2.5 m (8.2 ft.) Ethernet CAT 5e data cable with IP67-rated RJ-45 connectors:	P/N 11840148
5 m (16.4 ft.) Ethernet CAT 5e data input cable with IP67-rated connectors:	P/N 11840152
30 m (98.4 ft.) Ethernet CAT 5e data input cable with IP67-rated connectors:	P/N 11840145

All EC Series and P3 System Controller Series user documentation is available for download free of charge from the Product Support area at www.martin.com

ORDERING INFORMATION

1 x EC-10 Video Panel, calibrated (supplied in separately ordered flightcase):	P/N 90354320
Flightcase for 8 x EC Series panels (flightcase and panels are ordered separately):	P/N 91515008
EC Series Single Header in Cardboard Box:	P/N 90354240
EC Series Double Header (supplied in separately ordered flightcase):	P/N 90354250
Flightcase for EC Series Double Header (order at same time as Header):	P/N 91515006
EC Series Triple Header (supplied in separately ordered flightcase):	P/N 90354260
Flightcase for EC Series Triple Header (order at same time as Header):	P/N 91515007
EC-10 LED Block Right:	P/N 90354300
EC-10 LED Block Left:	P/N 90354310
Martin P3-100 System Controller:	P/N 90721010
Martin P3-200 System Controller:	P/N 90721020
Martin P3-PC License on One-Key USB stick:	P/N 90721030
P3-PC License code:	P/N 39808028

EC-20™

The EC-20 represents a new generation of indoor and outdoor LED screen, combining low weight and creativity with state-of-the-art image quality.

Features

- Brightness: 4000 Nit (calibrated)
- Pixel level color and intensity calibration
- Outstanding image quality and elegant, cable-free design
- 20 mm pixel pitch, semi-transparent design
- Flexible - integrated curving and full integration with lighting control
- Lightweight, yet strong
- Fast to assemble, no tools, no cables
- Powerful P3 system processor, easy setup procedure
- Reliable, built to the highest standards

Specifications

PHYSICAL

EC-20 Video Display Panel	
Width:	480 mm (18.9 in.)
Depth:	100 mm (3.9 in.)
Height:	720 mm (28.3 in.)
Weight:	10.3 kg (22.7 lbs.)
EC Series Single Header	
Width:	480 mm (18.9 in.)
Depth:	85 mm (3.3 in.)
Height:	120 mm (4.7 in.)
Weight:	4.7 kg (10.4 lbs.)
EC Series Double Header	
Width:	960 mm (37.8 in.)
Depth:	100 mm (3.9 in.)
Height:	130 mm (5.1 in.)
Weight:	15.4 kg (34.0 lbs.)
EC Series Triple Header	
Width:	1440 mm (56.7 in.)
Depth:	100 mm (3.9 in.)
Height:	130 mm (5.1 in.)
Weight:	23.1 kg (50.9 lbs.)

CONTROL/USER INTERFACE

Device status:	Status indicator LED
Setup testing:	Local test patterns

VIDEO PROCESSING

P3 System Controller:	P3-100, P3-200 or P3-PC

P3 SIGNAL PROTOCOL

Signal type:	Gigabit Ethernet
Protocol:	Proprietary Martin P3
Hot pluggable:	Yes, electrically isolated at all connections
Cable type:	Ethernet, CAT 5e or better
Cable length:	Up to 100 m (328.1 ft.) between any 2 devices, extendable with Ethernet switch

CONSTRUCTION

Panel frames:	Aluminum
LED modules per panel:	18
Color:	Matt black
Protection rating:	IP65, NEMA 4

INSTALLATION

Orientation:	Individually mounted panel any angle; suspended column vertical only
Max. suspended in one column:	Max. sixteen EC Series panels
Panel interlocking:	Quick-release mounting system

CONNECTIONS

Power input to Header:	1.5 m (4.9 ft.) cable tail w/o power plug
P3 data input to Header:	Accepts an Amphenol IP67-rated Ethernet cable connector
Panel power and data interconnection:	Integrated connector system

ELECTRICAL

AC power:	200-240 V nominal, 50/60 Hz
Power supply unit:	Integrated, auto-sensing multi-voltage
Main fuse:	2 x 3.15 AT
Peak power consumption (approx., at full intensity, full white):	270 W per panel
Typical power consumption (with typical video content):	100 W per panel

APPROVALS

EU safety:	EN 60950-1, EN 60529
EU EMC:	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
US safety:	UL 60950-1
Canadian safety:	CAN/CSA C22.2 No. 60950-1

INCLUDED ITEMS

Included with EC-20 panel:	1 x EC-20 video display panel
Included with 8-unit Panel Flightcase:	EC-20 Safety and Installation Guide

ACCESSORIES

EC Series Curving Installation Kit (50 locking knobs, 25 'bananas') in cardboard box:	P/N 90354270
EC Series panel clamp:	P/N 90354340
EC Series Input Connector:	P/N 90354350
EC Series Output Connector:	P/N 90354330
1.5 m (4.9 ft.) Ethernet CAT 5e data cable with IP67-rated RJ-45 connectors:	P/N 11840147
2.5 m (8.2 ft.) Ethernet CAT 5e data cable with IP67-rated RJ-45 connectors:	P/N 11840148
5 m (16.4 ft.) Ethernet CAT 5e data input cable with IP67-rated connectors:	P/N 11840152
30 m (98.4 ft.) Ethernet CAT 5e data input cable with IP67-rated connectors:	P/N 11840145

All EC Series and P3 System Controller Series user documentation is available for download free of charge from the Product Support area at www.martin.com

ORDERING INFORMATION

1 x EC-20 Video Panel, calibrated (supplied in separately ordered flightcase):	P/N 90354230
Flightcase, 8 x EC Series Panel Flightcase (flightcase and panels are ordered separately):	P/N 91515008
EC Series Single Header in Cardboard Box:	P/N 90354240
EC Series Double Header (supplied in separately ordered flightcase):	P/N 90354250
Flightcase for EC Series Double Header (order at same time as Header):	P/N 91515006
EC Series Triple Header (supplied in separately ordered flightcase):	P/N 90354260
Flightcase for EC Series Triple Header (order at same time as Header):	P/N 91515007
EC-20 LED Block Right:	P/N 90354290
EC-20 LED Block Left:	P/N 90354280
Martin P3-100 System Controller:	P/N 90721010
Martin P3-200 System Controller:	P/N 90721020
Martin P3-PC License on One-Key USB stick:	P/N 90721030
P3-PC License code:	P/N 39808028

LC Plus Series™

LC Plus is a modular system of LED video panels designed for the demanding rental and staging market as well as fixed installations. A true IP65 protection rating, wide operating temperature range and high level of brightness enable the LC Plus to be used in most outdoor applications. A low weight and high degree of transparency enable use in applications that simply are not possible with conventional LED screens.

Features

- 40 mm pixel pitch (seamless image at about 30m)
- Bright, 3000 Nit (calibrated)
- 60% transparency
- Pixel level color calibration for superb color and brightness uniformity
- Ethernet based signal distribution, up to 50 panels in daisy chain
- Designed for outdoor and indoor use, IP65 protection rating
- DMX controlled image manipulation in real-time

Specifications

PHYSICAL

Height:	2000 mm (78.7 in.)
Width:	1000 mm (39.4 in.)
Depth:	152 mm (6.0 in.)
Weight:	22.4 kg (49.4 lbs.)

CONTROL/USER INTERFACE

Device status and addressing:	Onboard control panel with LED display, status LEDs
Setup testing:	Local test patterns

VIDEO PROCESSING

P3 System Controller:	P3-100, P3-200 or P3-PC

P3 SIGNAL PROTOCOL

Signal type:	Gigabit Ethernet
Protocol:	Proprietary Martin P3
Hot pluggable:	Yes, electrically isolated at all connections
Cable type:	CAT 5e, UTP
Cable length:	Up to 100 m (328.1 ft.) between any 2 devices, extendable with Ethernet switch
Latency between first and last panel:	None

CONSTRUCTION

Panel frames:	Aluminum
LED tubes:	UV-resistant acrylic
Transparency through panel (unmasked area):	>60%
Protection rating:	IP65, NEMA 4

INSTALLATION

Orientation:	Individually mounted panel any angle; stack or suspended chain horizontal or vertical only
Max. suspended in one chain:	Max. six 2140 panels hung vertically per single chain
Max. stacked:	Max. seven 2140 panels standing vertically per single stack
Panel interlocking:	Prolyte CCS6 conical coupler system

CONNECTIONS

Power in/out:	Ruggedized IP67-rated power connectors
P3 data in/out:	Ruggedized IP67-rated RJ45 connectors

ELECTRICAL

AC power:	200-240 V nominal, 50/60 Hz
Power supply unit:	Integrated, auto-sensing multi-voltage
Standby power:	<35 W

APPROVALS

EU safety:	EN 60950-1, EN 60825-1
EU EMC:	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
US safety:	UL 60950-1
Canadian safety:	CAN/CSA C22.2 No. 60950-1

INCLUDED ITEMS

Included with cardboard box models:

4 x Prolyte CCS6 conical couplers:	P/N 21021150
8 x threaded spigots for LC Plus conical couplers:	P/N 08330127
8 mm (0.3 in.) hex key for threaded spigots:	P/N 50520619
5 m (16.4 ft.) power input cable with IP67-rated input connector (single-phase power input):	P/N 11521030
5 m (16.4 ft.) power input cable with IP67-rated input connector (2-phase power input):	P/N 11521034
1.5 m (4.9 ft.) power throughput cable with IP67-rated connectors (single-phase power systems):	P/N 11521031
1.5 m (4.9 ft.) power throughput cable with IP67-rated connectors (2-phase power systems):	P/N 11521033
2.5 m (8.2 ft.) Ethernet patch cable with IP67-rated RJ-45 connectors:	P/N 11840147
1.5 m (4.9 ft.) Ethernet patch cable with IP67-rated RJ-45 connectors:	P/N 11840148

ACCESSORIES

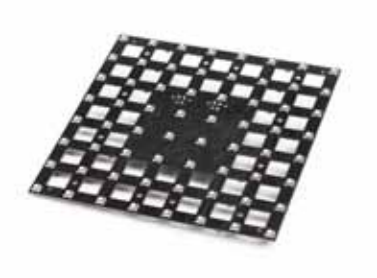
Female conical coupler socket with hole for spigot:	P/N 21021151
Half conical coupler with hole for spigot, length 44 mm (1.7 in.):	P/N 21021152
Half conical coupler with hole for spigot, length 63 mm (2.5 in.):	P/N 21021153
Half conical coupler without hole for spigot, length 44 mm (1.7 in.):	P/N 26820300
30 m (98.4 ft.) Ethernet CAT 5e data input cable with IP67 connector for LC Plus:	P/N 11840145
5 m (16.4 ft.) Ethernet CAT 5e data input cable with IP67-rated connectors:	P/N 11840152
Power Cable, US, Daisychain, 2,5M	P/N 11521043
Power Cable, EU, Daisychain, 2,5M	P/N 11521044
Power Cable, EU, Daisychain, 5M	P/N 11521045
Power Cable, US, Daisychain, 5M	P/N 11521046
Four-unit flightcase for 4 x LC Plus 2140 video panels:	P/N 91510120

All LC Plus Series and P3 System Controller Series user documentation is available free of charge from the Product Support area at www.martin.com

ORDERING INFORMATION

LC Plus 2140 panel, in flightcase:	P/N 90354101
LC Plus 2140 panel, in cardboard box:	P/N 90354102
Martin P3-100 System Controller:	P/N 90721010
Martin P3-200 System Controller:	P/N 90721020
Martin P3-PC License on One-Key USB stick:	P/N 90721030
P3-PC License code:	P/N 39808028

VC-Grid™



The VC-Grid is a small, 200 x 200 mm LED video module with a 25 mm pixel pitch. Useful in creating customized LED video solutions with maximum artistic flexibility and a minimum of effort, the VC-Grid's compact size makes it extremely suitable for integration into stage designs, set elements, creative ceilings, lobbies and much more. Used with or without a front diffuser, multiple VC-Grids can be combined in a countless variety of ways for ultimate design freedom. A combined power/data cable allows VC-Grids to be daisy-chained for easy setup and less cabling.

Features

- 64 individually controllable pixels
- 4000 Nits of brightness (calibrated mode)
- High-quality 16-bit per color image processing technology
- Pixel-level brightness and color calibration for optimal image quality
- P3/DMX controllable (automatic protocol detection)
- Intuitive mapping and addressing via P3 System Controller
- Combined power/data input (single cable for power and data input)
- Combined power/data thru (to daisy-chain multiple VC-Grids)
- Available in RGB, cool white, medium white and warm white
- Supported by integrated power and data processor (P3 PowerPort 1500) and simple cabling system
- Custom designs available on request (pixel pitch and module dimensions)

Specifications

PHYSICAL

Length:	185 mm (7.3 in.)
Width:	185 mm (7.3 in.)
Height:	18 mm (0.7 in.)
Weight:	140 g (4.9 oz.)

CONTROL AND PROGRAMMING

Control options:	Martin P3 System Controller via Martin P3 PowerPort 1500 and/or DMX
Protocol detection:	Automatic
Control modes:	Calibrated and raw, pixel and module
DMX channels (RGB):	192 (pixel mode) or 3 (module mode)
DMX channels (WW, MW and CW):	64 (pixel mode) or 1 (module mode)
Setting and addressing:	P3 System controller or RDM-compliant controller
Control resolution:	16-bit (P3) or 8-bit (DMX) control of each color
Color and intensity calibration:	Pixel-level
DMX compliance:	USITT DMX512-A
RDM compliance:	ANSI/ESTA E1.20
Firmware update:	Via P3 System Controller

OPTICS

Minimum LED lifetime:	50 000 hours (to >70% luminous output)*

**Manufacturer's figure obtained under manufacturer's test conditions*

CONTROL/USER INTERFACE

Device status:	Multi-color visual indication
Device test and reset:	Pushbutton to call up local test patterns and reset device

VIDEO PROCESSING

Brightness control
Gamma correction and control
Color temperature control
Calibration processing
Synchronization

PHOTOMETRIC DATA

Pixels per module:	64
Color temperature, WW:	2700 K
Color temperature, MW:	4000 K
Color temperature, CW:	6500 K
Luminous intensity, RGB, calibrated mode:	4000 Nit
Luminous intensity, RGB, raw mode:	5000 Nit
Luminous intensity, WW, calibrated mode:	8 000 Nit
Luminous intensity, WW, raw mode:	10 000 Nit
Luminous intensity, MW, calibrated mode:	8 000 Nit
Luminous intensity, MW, raw mode:	10 000 Nit
Luminous intensity, CW, calibrated mode:	8 000 Nit
Luminous intensity, CW, raw mode:	10 000 Nit
Viewing angle:	120° x 120°

CONSTRUCTION

Base:	Black FR4 circuit board
Transparency through module (unmasked area):	37%
Protection rating:	IP20

RoHS compliant

INSTALLATION

Orientation:	Any
Maximum number of VC-Grid 8x8 25 modules per daisy-chain:	12
Mounting:	Mounting holes in module, mounting accessories will be available

CONNECTIONS

Power & data input:	4-pin Molex connector
Power & data thru:	4-pin Molex connector

ELECTRICAL

Nominal input voltage:	48 VDC from Martin P3 PowerPort 1500 or generic PSU

TYPICAL POWER AND CURRENT

Power consumption per module:	25 W at full white

VC-Grid™

Specifications

THERMAL

Cooling:	Convection
Maximum ambient temperature (Ta max.):	45° C (113° F)
Minimum ambient temperature (Ta min.):	-20° C (-4° F)

APPROVALS

EU safety:	EN 60950
EU EMC:	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
US safety:	ANSI/UL 60950-1
Canadian safety:	CSA C22.2 No. 60950-1

ACCESSORIES

Hybrid (Power & Data) Adapter, 4-pin XLR to PCB, 0.25 m (0.8 ft.):	P/N 11840158
Hybrid (Power & Data) Adapter, PCB to 4-pin XLR, 0.25 m (0.8 ft.):	P/N 11840159
Hybrid (Power & Data) Adapter, 5-pin XLR + power to 4-pin XLR, 0.25 m (0.8 ft.):	P/N 11840171
Hybrid (Power & Data) Cable, PCB to PCB, 200 mm (7.9 in.):	P/N 11840160
Hybrid (Power & Data) Cable, PCB to PCB, 400 mm (15.7 in.):	P/N 11840161
Hybrid (Power & Data) Cable, PCB to PCB, 600 mm (23.6 in.):	P/N 11840162
Hybrid (Power & Data) Cable, PCB to PCB, 800 mm (31.5 in.):	P/N 11840163
Hybrid (Power & Data) Cable, PCB to PCB, 1000 mm (39.4 in.):	P/N 11840157

RELATED ITEMS

Martin P3 PowerPort 1500:	P/N 90721040
Martin P3-100 System Controller:	P/N 90721010
Martin P3-200 System Controller:	P/N 90721020
Martin P3-PC System Controller:	P/N 90721030

ORDERING INFORMATION

VC-Grid RGB, 8x8:	P/N 90357010
VC-Grid WW, 8x8:	P/N 90357000
VC-Grid MW, 8x8:	P/N 90357030
VC-Grid CW 8x8:	P/N 90357020

VC-Dot 1™

VC-Dot 1 is a lightweight string of individually controllable, bright Dots useful in creating customized LED video solutions with maximum artistic flexibility and a minimum of effort. Fully customizable and controllable via the award-winning P3 System Controller™ family and/or DMX512, it is a perfect solution for integrating LED video technology into façades, stage designs, ceilings or any other structure, indoors or out.

Mapping video onto VC-Dots goes quickly and intuitively via the P3 System Controller. No need for complex setups and time-consuming addressing. VC-Dot 1 contains one LED and is available in an RGB color mixing version or cool, medium, or warm white single-color versions.

Features

- Can assume any form for creative freedom
- Individually controllable Dots
- Bright at 3cd per Dot (raw mode)
- Maximum 100 Dots per string
- Each Dot features calibrated brightness and colors
- Various Dot spacings available
- Customizable string length
- P3 or DMX controllable
- Intuitive mapping and addressing via P3 System Controller family
- Efficient and long-lasting
- IP67 rated for permanent outdoor or indoor use
- Perfect for façade or stage integration
- Supported by integrated power and data processor (P3 PowerPort 1500™) and simple cabling system

Specifications

PHYSICAL

Pixel dimensions:	20 mm (0.8 in.) x 22 mm (0.9 in.) x 11 mm (0.4 in.)
Pixel dimensions with dome:	20 mm (0.8 in.) x 22 mm (0.9 in.) x 21 mm (0.8 in.)
Max. pixels per string:	100
Minimum pixel spacing (pitch):	50 mm (2.0 in.)
Maximum pixel spacing (pitch):	1000 mm (39.4 in.)
Maximum lead-in cable length:	2000 mm (78.7 in.)
Weight:	1.3 kg (2.9 lbs.) for 100 Dots, 100 mm (3.9 in.) spacing, with 2 m (6.6 ft.) lead-in cable and connector

VC-Dot 1™

One pixel = one Dot

CONTROL AND PROGRAMMING

Control options:	Martin P3 System controller and/or DMX
DMX channels:	3 per independently controlled Dot or per entire string
Control modes:	Calibrated and raw
Setting and addressing:	P3 System controller or RDM-compliant controller
Control resolution:	16-bit (P3) or 8-bit (DMX) control of each color
Color and intensity calibration:	Dot-level
DMX compliance:	USITT DMX512-A
RDM compliance:	ANSI/ESTA E1.2

OPTICS

Minimum LED lifetime:	50 000 hours (to >70% luminous output)*

**Manufacturer's figure obtained under manufacturer's test conditions*

PHOTOMETRIC DATA

Light source:	One RGB, WW, MW or CW LED
Color temperature, WW:	2700 K
Color temperature, MW:	4000 K
Color temperature, CW:	6500 K
Luminous intensity, RGB, calibrated mode:	2.5 cd
Luminous intensity, RGB, raw mode:	3 cd
Luminous intensity, WW, calibrated mode:	4 cd
Luminous intensity, WW, raw mode:	5 cd
Luminous intensity, MW, calibrated mode:	4 cd
Luminous intensity, MW, raw mode:	5 cd
Luminous intensity, CW, calibrated mode:	4 cd
Luminous intensity, CW, raw mode:	5 cd
Viewing angle:	120° x 120°
Viewing angle with dome:	180° x 180°

CONSTRUCTION

Dot:	Clear polycarbonate, clear silicone filled
Diffuser dome:	White translucent polycarbonate
Mounting clip:	White polycarbonate
Interconnecting cable:	6 x AWG20, black
String input connector:	8-pin M12 IP67
Protection rating:	IP65
RoHS compliant	

ELECTRICAL

Operating voltage:	15 VDC
Power and data converter:	Martin VC-Feeder (IP65)

TYPICAL POWER AND CURRENT

Power consumption per pixel:	1 W at full white

THERMAL

Cooling:	Convection
Maximum ambient temperature (Ta max.):	55° C (131° F)
Minimum ambient temperature (Ta min.):	-20° C (-4° F)

APPROVALS

EU safety:	EN 60950
EU EMC:	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
US safety:	UL 60950-1
Canadian safety:	CSA C22.2 No. 60950-1

VC-Dot 1™

ACCESSORIES

Set of ten VC-Dot 1 Diffuser Domes:	P/N 90357180
Set of ten VC-Dot 1 Mounting Clips:	P/N 90357210

RELATED ITEMS

Martin VC-Feeder:	P/N 90357040
Martin P3 PowerPort 1500:	P/N 90721040
Martin P3-100 System Controller:	P/N 90721010
Martin P3-200 System Controller:	P/N 90721020
Martin P3-PC System Controller:	P/N 90721030

ORDERING INFORMATION

VC-Dot 1 RGB, 100 mm (3.9 in.) pitch, 100 pcs., 2 m (6.6 ft.) lead-in:	P/N 90357060
VC-Dot 1 WW, 100 mm (3.9 in.) pitch, 100 pcs., 2 m (6.6 ft.) lead-in:	P/N 90357090
VC-Dot 1 MW, 100 mm (3.9 in.) pitch, 100 pcs., 2 m (6.6 ft.) lead-in:	P/N 90357080
VC-Dot 1 CW, 100 mm (3.9 in.) pitch, 100 pcs., 2 m (6.6 ft.) lead-in:	P/N 90357070

VC-Dot 4™

VC-Dot 4 is a lightweight string of individually controllable, bright Dots useful in creating customized LED video solutions with maximum artistic flexibility and a minimum of effort. Fully customizable and controllable via the award-winning P3 System Controller™ family and/or DMX512, it is a perfect solution for integrating LED video technology into façades, stage designs, ceilings or any other structure, indoors or out.

Mapping video onto VC-Dots goes quickly and intuitively via the P3 System Controller. No need for complex setups and time-consuming addressing. VC-Dot 4 contains four LEDs and is available in an RGB color mixing version or cool, medium, or warm white single-color versions.

Features

- Can assume any form for creative freedom
- Individually controllable Dots
- Bright at 9cd per Dot (raw mode)
- Maximum 64 Dots per string
- Each Dot features calibrated brightness and colors
- Various Dot spacings available
- Customizable string length
- P3 or DMX controllable
- Intuitive mapping and addressing via P3 System Controller family
- Efficient and long-lasting
- IP66 rated for permanent outdoor or indoor use
- Perfect for façade or stage integration
- Supported by integrated power and data processor (P3 PowerPort 1500™) and simple cabling system

Specifications

PHYSICAL

Pixel dimensions:	30 mm (1.2 in.) x 30 mm (1.2 in.) x 13 mm (0.5 in.)
Pixel dimensions with dome:	30 mm (1.2 in.) x 30 mm (1.2 in.) x 27 mm (1.1 in.)
Max. pixels per string:	64
Minimum pixel spacing (pitch):	50 mm (2.0 in.)
Maximum pixel spacing (pitch):	2000 mm (78.7 in.)
Maximum lead-in cable length:	2000 mm (78.7 in.)
Weight:	1.8 kg (4.0 lbs.) for 64 Dots, 200 mm (7.9 in.) spacing, with 2 m (6.6 ft.) lead-in cable and connector

One pixel = one Dot

CONTROL AND PROGRAMMING

Control options:	Martin P3 System controller and/or DMX
DMX channels:	3 per independently controlled Dot or per entire string
Control modes:	Calibrated and raw
Setting and addressing:	P3 System controller or RDM-compliant controller
Control resolution:	16-bit (P3) or 8-bit (DMX) control of each color
Color and intensity calibration:	Dot-level
DMX compliance:	USITT DMX512-A
RDM compliance:	ANSI/ESTA E1.20

OPTICS

Minimum LED lifetime:	50 000 hours (to >70% luminous output)*

**Manufacturer's figure obtained under manufacturer's test conditions*

PHOTOMETRIC DATA

Light source:	Four RGB, WW, MW or CW LEDs
Color temperature, WW:	2700 K
Color temperature, MW:	4000 K
Color temperature, CW:	6500 K
Luminous intensity, RGB, calibrated mode:	7.5 cd
Luminous intensity, RGB, raw mode:	9 cd
Luminous intensity, WW, calibrated mode:	12 cd
Luminous intensity, WW, raw mode:	15 cd
Luminous intensity, MW, calibrated mode:	12 cd
Luminous intensity, MW, raw mode:	15 cd
Luminous intensity, CW, calibrated mode:	12 cd
Luminous intensity, CW, raw mode:	15 cd
Viewing angle:	120° x 120°
Viewing angle with dome:	180° x 180°

CONSTRUCTION

Dot:	Clear polycarbonate, clear silicone filled
Diffuser dome:	White translucent polycarbonate
Mounting clip:	White polycarbonate
Interconnecting cable:	6 x AWG20, black
String input connector:	8-pin M12 IP67
Protection rating:	IP66
RoHS compliant	

ELECTRICAL

Operating voltage:	15 VDC
Power and data converter:	Martin VC-Feeder (IP65)

TYPICAL POWER AND CURRENT

Power consumption per pixel:	1.5 W at full white

THERMAL

Cooling:	Convection
Maximum ambient temperature (Ta max.):	55° C (131° F)
Minimum ambient temperature (Ta min.):	-20° C (-4° F)

APPROVALS

EU safety:	EN 60950
EU EMC:	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
US safety:	ANSI/UL 60950-1
Canadian safety:	CSA C22.2 No. 60950-1

ACCESSORIES

Set of ten VC-Dot 4 Diffuser Domes:	P/N 90357190
Set of ten VC-Dot 4 Mounting Clips:	P/N 90357220

RELATED ITEMS

Martin VC-Feeder:	P/N 90357040
Martin P3 PowerPort 1500:	P/N 90721040
Martin P3-100 System Controller:	P/N 90721010
Martin P3-200 System Controller:	P/N 90721020
Martin P3-PC System Controller:	P/N 90721030

ORDERING INFORMATION

VC-Dot 4 RGB, 200 mm (7.9 in.) pitch, 64 pcs., 2 m (6.6 ft.) lead-in:	P/N 90357100
VC-Dot 4 WW, 200 mm (7.9 in.) pitch, 64 pcs., 2 m (6.6 ft.) lead-in:	P/N 90357130
VC-Dot 4 MW, 200 mm (7.9 in.) pitch, 64 pcs., 2 m (6.6 ft.) lead-in:	P/N 90357120
VC-Dot 4 CW, 200 mm (7.9 in.) pitch, 64 pcs., 2 m (6.6 ft.) lead-in:	P/N 90357110

VC-Dot 9™

VC-Dot 9 is a lightweight string of individually controllable, bright Dots useful in creating customized LED video solutions with maximum artistic flexibility and a minimum of effort. Fully customizable and controllable via the award-winning P3 System Controller™ family and/or DMX512, it is a perfect solution for integrating LED video technology into façades, stage designs, ceilings or any other structure, indoors or out.

Mapping video onto VC-Dots goes quickly and intuitively via the P3 System Controller. No need for complex setups and time-consuming addressing. VC-Dot 9 contains nine LEDs and is available in an RGB color mixing version or cool, medium, or warm white single-color versions.

Features

- Can assume any form for creative freedom
- Individually controllable Dots
- Bright at 27cd per Dot (raw mode)
- Maximum 36 Dots per string
- Each Dot features calibrated brightness and colors
- Various Dot spacings available
- Customizable string length
- P3 or DMX controllable
- Intuitive mapping and addressing via P3 System Controller family
- Efficient and long-lasting
- IP66 rated for permanent outdoor or indoor use
- Perfect for façade or stage integration
- Supported by integrated power and data processor (P3 PowerPort 1500™) and simple cabling system

Specifications

PHYSICAL

Pixel dimensions:	40 mm (1.6 in.) x 40 mm (1.6 in.) x 13 mm (0.5 in.)
Pixel dimensions with dome:	40 mm (1.6 in.) x 40 mm (1.6 in.) x 32 mm (1.3 in.)
Max. pixels per string:	36
Minimum pixel spacing (pitch):	50 mm (2.0 in.)
Maximum pixel spacing (pitch):	2000 mm (78.7 in.)
Maximum lead-in cable length:	2000 mm (78.7 in.)
Weight:	1.8 kg (4.0 lbs.) for 36 Dots, 400 mm (15.7 in.) spacing, with 2 m (6.6 ft.) lead-in cable and connector

One pixel = one Dot

CONTROL AND PROGRAMMING

Control options:	Martin P3 System controller and/or DMX
DMX channels:	3 per independently controlled Dot or per entire string
Control modes:	Calibrated and raw
Setting and addressing:	P3 System controller or RDM-compliant controller
Control resolution:	16-bit (P3) or 8-bit (DMX) control of each color
Color and intensity calibration:	Dot-level
DMX compliance:	USITT DMX512-A
RDM compliance:	ANSI/ESTA E1.20

OPTICS

Minimum LED lifetime:	50 000 hours (to >70% luminous output)*

**Manufacturer's figure obtained under manufacturer's test conditions*

PHOTOMETRIC

Data Light source:	Nine RGB, WW, MW or CW LEDs
Color temperature, WW:	2700 K
Color temperature, MW:	4000 K
Color temperature, CW:	6500 K
Luminous intensity, RGB, calibrated mode:	22.5 cd
Luminous intensity, RGB, raw mode:	cd
Luminous intensity, WW, calibrated mode:	36 cd
Luminous intensity, WW, raw mode:	45 cd
Luminous intensity, MW, calibrated mode:	36 cd
Luminous intensity, MW, raw mode:	45 cd
Luminous intensity, CW, calibrated mode:	36 cd
Luminous intensity, CW, raw mode:	45 cd
Viewing angle:	120° x 120°
Viewing angle with dome:	180° x 180°

CONSTRUCTION

Dot:	Clear polycarbonate, clear silicone filled
Diffuser dome:	White translucent polycarbonate
Mounting clip:	White polycarbonate
Interconnecting cable:	6 x AWG20, black
String input connector:	8-pin M12 IP67
Protection rating:	IP66
RoHS compliant	

ELECTRICAL

Operating voltage:	15 VDC
Power and data converter:	Martin VC-Feeder (IP65)

TYPICAL POWER AND CURRENT

Power consumption per pixel:	3 W at full white

THERMAL

Cooling:	Convection
Maximum ambient temperature (Ta max.):	55° C (131° F)
Minimum ambient temperature (Ta min.):	-20° C (-4° F)

APPROVALS

EU safety:	EN 60950
US EMC:	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
US safety:	ANSI/UL 60950-1
Canadian safety:	CSA C22.2 No. 60950-1

ACCESSORIES

Set of ten VC-Dot 9 Diffuser Domes:	P/N 90357200
Set of ten VC-Dot 9 Mounting Clips:	P/N 90357170

RELATED ITEMS

Martin VC-Feeder:	P/N 90357040
Martin P3 PowerPort 1500:	P/N 90721040
Martin P3-100 System Controller:	P/N 90721010
Martin P3-200 System Controller:	P/N 90721020
Martin P3-PC System Controller:	P/N 90721030

ORDERING INFORMATION

VC-Dot 9 RGB, 400 mm (15.7 in.) pitch, 36 pcs., 2 m (6.6 ft.) lead-in:	P/N 90357140
VC-Dot 9 WW, 400 mm (15.7 in.) pitch, 36 pcs., 2 m (6.6 ft.) lead-in:	P/N 90357050
VC-Dot 9 MW, 400 mm (15.7 in.) pitch, 36 pcs., 2 m (6.6 ft.) lead-in:	P/N 90357160
VC-Dot 9 CW, 400 mm (15.7 in.) pitch, 36 pcs., 2 m (6.6 ft.) lead-in:	P/N 90357150

VC-Feeder™

The VC-Feeder is a smart, multi-protocol driver box for the VC-Dot series. A compact design and IP65 rating make it perfectly suited for installation close to a string of VC-Dots. The VC-Feeder provides the string with clean, regulated power, even if the power supply is located far away. Compatibility with the P3 System Controller™ (via the P3 PowerPort 1500™) gives it high-quality image processing capabilities with extremely easy setup and configuration.

Features

- High-quality, 16-bit-per-color image processing technology
- IP65 rated for permanent outdoor or indoor use
- P3/DMX controllable (automatic protocol detection)
- Intuitive mapping and addressing via P3 System Controller family
- Hybrid power + data input (single cable for power and data input)
- Hybrid power + data thru (to daisy-chain multiple VC-Feeders)
- Hybrid power + data output (to a string of VC-Dots)
- Surface- and truss-mountable

Specifications

PHYSICAL

Length:	164 mm (6.5 in.) including mounting ears
Width:	68 mm (2.7 in.)
Height:	36 mm (1.4 in.)
Weight:	590 g (20.8 oz.)

CONTROL AND PROGRAMMING

Control options:	Martin P3 System Controller via Martin P3 PowerPort 1500 and/or DMX
Protocol detection:	Automatic
Product detection:	Automatic
Control modes:	Adapts to detected product
DMX channels:	Adapts to detected product
Setting and addressing:	P3 System controller or RDM-compliant controller
DMX compliance:	USITT DMX512-A
RDM compliance:	ANSI/ESTA E1.20
Firmware update:	Via P3 System Controller

CONTROL/USER INTERFACE

Device status:	Multicolor status LED
Device test and reset:	Pushbutton to call up local test patterns and reset device

VIDEO PROCESSING

Brightness control	
Gamma correction and control	
Color temperature control	
Calibration processing	
Synchronization	

CONSTRUCTION

Housing:	Extruded aluminum
Protection rating:	IP65
RoHS compliant	

INSTALLATION

Orientation:	Any
Surface mounting:	Two M6 mounting slots
Truss mounting:	M12 mounting hole for standard rigging clamp

CONNECTIONS

Power & data input:	6-pin custom IP65-rated
Power & data thru:	6-pin custom IP65-rated
Power & data output:	8-pin custom IP65-rated

ELECTRICAL

Nominal input voltage:	48 VDC from Martin P3 PowerPort 1500 or Martin DMX PowerPort 375
Output voltage:	15 VDC
Maximum total power consumption:	120 W

THERMAL

Cooling: Convection	
Maximum ambient temperature (Ta max.):	55° C (131° F)
Minimum ambient temperature (Ta min.):	-20° C (-4° F)

APPROVALS

EU safety:	EN 60950
EU EMC:	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
US safety:	ANSI/UL 60950-1
Canadian safety:	CSA C22.2 No. 60950-1

ACCESSORIES

Hybrid input adapter cable, 4-pin male XLR to 6-pin female IP65, 0.25 m (0.8 ft.):	P/N 11840165
Hybrid Power+Data Adapter XLR5+Power-IP65 0.25m	P/N 11840174
Hybrid output adapter cable, 6-pin male IP65 to 4-pin female XLR, 0.25 m (0.8 ft.):	P/N 11840166
Hybrid extension cable, IP65 to IP65, 1 m (3.3 ft.):	P/N 11840167
Hybrid extension cable, IP65 to IP65, 2.5 m (8.2 ft.):	P/N 11840168
Hybrid extension cable, IP65 to IP65, 5 m (16.4 ft.):	P/N 11840169
Hybrid extension cable, IP65 to IP65, 10 m (32.8 ft.):	P/N 11840170
Hybrid extension cable, IP65 to IP65, 25 m (82.0 ft.):	P/N 11840164
Hybrid cables carry power and data over separate conductors IP67 connectors are custom items	
G-clamp:	P/N 91602003
Half-coupler clamp:	P/N 91602005
Quick trigger clamp:	P/N 91602007
Safety wire, safe working load 50 kg (110.2 lbs.):	P/N 91604003

RELATED ITEMS

Martin VC-Dot 1	
Martin VC-Dot 4	
Martin VC-Dot 9	
Martin P3 PowerPort 1500:	P/N 90721040
Martin P3-100 System Controller:	P/N 90721010
Martin P3-200 System Controller:	P/N 90721020
Martin P3-PC System Controller:	P/N 90721030

ORDERING INFORMATION

VC-Feeder:	P/N 90357040

P3 PowerPort 1500™

The P3 PowerPort 1500 is an integrated power and data processor for Martin's range of creative LED video products, including the VC-Dots™ and VC-Grids™. When driven by one of Martin's award-winning P3 System Controllers™, it powers the connected products with high-quality image processing capabilities and extremely easy setup and configuration.

Features

- P3 image processing technology
- Set-up and addressing via P3 System Controller family
- P3 input and thru to allow daisy-chaining
- 4 hybrid power/data output ports
- Wall-, truss- and rack-mountable
- Can be located up to 50 m away from the creative LED video products

Specifications

PHYSICAL

Depth:	335 mm (13.2 in.)
Width:	482 mm (19.0 in.)
Height (rackmount 2U):	88 mm (3.5 in.)
Weight:	10 kg (22.0 lbs.)

CONTROL AND PROGRAMMING

Addressing and status:	Via P3 System Controller
Mapping:	Via P3 System Controller
Firmware update:	Via P3 System Controller

CONTROL/USER INTERFACE

Device status:	Multicolor status LED
Power output status:	Four LEDs
Data output status:	Four LEDs
Device test and reset:	Pushbutton to call up local test patterns and reset device

P3 SIGNAL PROTOCOL

Signal type:	Gigabit Ethernet
Protocol:	Proprietary Martin P3
Hot pluggable:	Yes, electrically isolated at all connections
Cable type:	Ethernet, CAT 5e or better
Cable length:	Up to 100 m (328.1 ft.) between any 2 devices, extendable with Ethernet switch

SYSTEM INTEGRATION

VC-Dot Series via VC-Feeder
VC-Grid Series

CONSTRUCTION

Housing:	Steel and aluminum
Color:	Matt black
Protection rating:	IP20

INSTALLATION

Mounting:	19-inch rackmount, wall mount, flown from rigging clamps
Connections Power input:	Neutrik PowerCon
P3 data in/out:	Two Neutrik Ethercon RJ-45 sockets
Combined power & data out:	Four 4-pin female XLR sockets (hybrid power & data cable)

ELECTRICAL

AC power:	100-240 V nominal, 50/60 H
Power supply units:	Auto-ranging electronic switch-mode
Main fuses:	10 AT (slow blow) x 4
Typical total power consumption:	1540 W, full load at full intensity

THERMAL

Cooling:	Filtered forced air (temperature-regulated, low noise)
Maximum ambient temperature (Ta max.):	45° C (113° F)
Minimum ambient temperature (Ta min.):	-20° C (-4° F)

APPROVALS

EU safety:	EN 60950
EU EMC:	EN 55103-1, EN 55103-2, EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3

US safety: ANSI/UL 60950-1
Canadian safety: CSA C22.2 No. 60950-1
Included Items Mounting brackets incl. screws
Safety wire attachment eyelet

ACCESSORIES

Neutrik PowerCon NAC3FCA power input connector, cable mount, blue:	P/N 05342804
3 m (9.8 ft.) power cable, 12 AWG, SJT, with PowerCon NAC3FCA power input connector:	P/N 11541503
2 m (6.6 ft.) shielded CAT 5e Ethercon cable, ferrite cores, RJ45 connectors in Neutrik shells:	P/N 11840144
Hybrid (Power & Data) Cable, 4-pin XLR, 1 m (3.3 ft.):	P/N 11821016
Hybrid (Power & Data) Cable, 4-pin XLR, 2.5 m (8.2 ft.):	P/N 11821017
Hybrid (Power & Data) Cable, 4-pin XLR, 5 m (16.4 ft.):	P/N 11821018
Hybrid (Power & Data) Cable, 4-pin XLR, 10 m (32.8 ft.):	P/N 11821019
Hybrid (Power & Data) Cable, 4-pin XLR, 25 m (82.0 ft.):	P/N 11821015
G-clamp:	P/N 91602003
Half-coupler clamp:	P/N 91602005
Quick trigger clamp:	P/N 91602007
Safety wire, safe working load 50 kg (110.2 lbs.):	P/N 91604003

RELATED ITEMS

Martin P3-100 System Controller:	P/N 90721010
Martin P3-200 System Controller:	P/N 90721020
Martin P3-PC System Controller:	P/N 90721030

SPARE PARTS

10 AT main fuse:	P/N 05021029

ORDERING INFORMATION

Martin P3 PowerPort 1500:	P/N 90721040

P3-100 System Controller™

The P3-100 System Controller is a robust video signal processing and distribution unit that allows video to join with lighting and scenic technologies for true visual integration. Based on embedded Linux and solid state storage, just one P3-100 Controller can handle up to 500,000 pixels scaled to any size.

Features

- Built in scaling and de-interlacing
- Supports both DVI (up to SXGA@75Hz) as well as analog video signals (CVBS, S-Video & Component)
- Allows key parameters including brightness and image mapping to be manipulated in real time using DMX512
- Built-in GUI (Graphical User Interface) including easy setup wizard
- Real time visualization of the video mapping within the GUI (Graphical user interface)
- Configurations can be conveniently exported onto a USB stick
- LED panels communicate with the P3-100 Controller to report any problems

Specifications

PHYSICAL

Depth:	380 mm (15.0 in.)
Width:	482 mm (19.0 in.)
Height (rackmount 2U):	90 mm (3.5 in.)
Weight:	7.7 kg (17.0 lbs.)

CONTROL/USER INTERFACE

User interface:	SXGA (1280 x 1024) or better monitor, keyboard, mouse
Device status:	Status indicator LEDs
DMX512 remotely controllable parameters	
Global:	Freeze frame, blackout, test patterns, color temperature, video input selection and settings preset recall
Panel/panel group:	Intensity, RGB adjustment, X-Y video image position, rotation, grouping
Kinesys remotely controllable parameters	
Panel/panel group:	X-Y video image position, rotation

VIDEO PROCESSING

Processor capacity:	500 000 pixels (expandable by adding P3-100s)
Output resolution:	Any within 500 K pixel limit (expandable by adding P3-100s)
System latency DVI:	1 frame
System latency analog progressive:	1 frame
System latency analog interlaced:	3 frames
DVI video input:	Up to 1280 x 1024, 50/60/75 Hz
Analog video input:	Composite, component and S-video
Frame synchronization to analog input signal	
Image rotation	
Scaling	
De-interlacing	
Gamma curve selection and adjustment	
Real-time panel content remapping	
Real-time color temperature control	

P3 SIGNAL PROTOCOL

Signal type:	Gigabit Ethernet
Protocol:	Proprietary Martin P3
Hot pluggable:	Yes, electrically isolated at all connections
Cable type:	Cat 5e
Cable length:	Up to 100 m (328.1 ft.) between any 2 devices, extendable with Ethernet switch
Max. number of panels per line:	50, extendable with Ethernet switch
Latency between first and last panel:	None

CONSTRUCTION

Housing:	Steel and aluminum
Color:	Matt black
Protection rating:	IP20

INSTALLATION

Mounting:	19-inch rackmount (2U)

CONNECTIONS

Power input:	IEC socket, power cables supplied
P3 data in/out:	RJ-45 socket
Kinesys and webpage in/out:	RJ-45 socket
DVI video in:	DVI-D (DVI-I connector provided)
Analog video in:	BNC
DMX in:	5-pin locking XLR
Peripherals and USB memory devices:	4 x USB ports
Analog monitor:	DD15
Serial data (available for future options):	RS-232 via DB9 connector

ELECTRICAL

AC power:	115-250 V, 47-63 Hz
Power supply unit:	Integrated, universal multi-voltage
Main fuse:	1 A, T (slow blow)

THERMAL

Cooling:	Forced air
Maximum ambient temperature (Ta max.):	50° C (122° F)
Minimum ambient temperature (Ta min.):	0° C (32° F)

APPROVALS

EU safety:	EN 60950-1
EU EMC:	EN 55022, EN 55024, EN 61000-3-2, EN EN 61000-3-3
US safety:	UL 60950-1
Canadian safety:	CAN/CSA C22.2 No. 60950-1

INCLUDED ITEMS

EU-type power cable with Schuko connector	
US-type power cable	
UK-type power cable	
30 m (98.4 ft.) Ethernet data cable with IP67-rated RJ-45 connector:	P/N 11840145
Installation and safety manual:	P/N 35000218
User documentation CD:	P/N 35005008

ORDERING INFORMATION

Martin P3-100 System Controller:	P/N 90721010

P3-200 System Controller™

The P3-200 System Controller combines all the celebrated features of the P3-100 yet adds SD-SDI, HD-SDI and 3G-SDI input capability for optimized use in TV/Broadcast environments. It retains all the advantages of the P3-100 System Controller like built-in scaling and de-interlacing, multiple video protocol and resolution support, built-in graphical user interface, direct DMX control of brightness, color, pixelmapping and more.

Features

- SD-SDI, HD-SDI and 3G-SDI video inputs for use with professional broadcast equipment
- DVI-D video input
- Supports input resolutions up to full HD (1920x1080)
- Software and showfile compatible with P3-100 System Controller
- The most user-friendly user interface in LED video
- Works with all Martin LED display systems

Specifications

PHYSICAL

Depth:	380 mm (15.0 in.)
Width:	482 mm (19.0 in.)
Height (rackmount 2U):	90 mm (3.5 in.)
Weight:	7.7 kg (17.0 lbs.)

CONTROL/USER INTERFACE

User interface:	SXGA (1280 x 1024) or better monitor, keyboard, mouse
Device status:	Status indicator LEDs
DMX512 remotely controllable parameters	
Global:	Freeze frame, blackout, test patterns, color temperature, video input selection and settings preset recall
Panel/panel group:	Intensity, RGB adjustment, X-Y video image position, rotation, grouping
Kinesys remotely controllable parameters	
Panel/panel group:	X-Y video image position, rotation

VIDEO PROCESSING

Processor capacity:	500 000 pixels (expandable by adding P3-200s)
Output resolution:	Any within 500 K pixel limit (expandable by adding P3-100s)
Processing depth:	16 bit per color
System latency, DVI:	1 frame
System latency, SDI progressive:	1 frame
System latency, SDI interlaced:	3 frames
DVI video input:	Up to 1920 x 1080, 50/60/75 Hz
SDI video input:	SD-SDI, HD-SDI and 3G-SDI (Level A only)
Image rotation	
Scaling	
De-interlacing	
Gamma curve selection and adjustment	
Real-time panel content remapping	
Real-time color temperature control	

P3 SIGNAL PROTOCOL

Signal type:	Gigabit Ethernet
Protocol:	Proprietary Martin P3
Hot pluggable:	Yes, electrically isolated at all connections
Cable type:	Ethernet, CAT 5e or better
Cable length:	Up to 100 m (328.1 ft.) between any 2 devices, extendable with Ethernet switch
Max. number of panels per line:	50, extendable with Ethernet switch
Latency between first and last panel:	None

CONSTRUCTION

Housing:	Steel and aluminum
Color:	Matt black
Protection rating:	IP20

INSTALLATION

Mounting:	19-inch rackmount (2U)

CONNECTIONS

Power input:	IEC socket, power cables supplied
P3 data in/out:	RJ-45 socket
Kinesys and webpage in/out:	RJ-45 socket
DVI video in:	DVI-D (DVI-I connector provided)
SDI video in:	BNC
SDI video thru:	BNC
DMX in:	5-pin locking XLR
Peripherals and USB memory devices:	4 x USB ports
User interface monitor:	VGA/DD15
Serial data (available for future options):	RS-232 via DB9 connector

ELECTRICAL

AC power:	115-250 V, 47-63 Hz
Power supply unit:	Integrated, universal multi-voltage
Main fuse:	1 A, T (slow blow)

THERMAL

Cooling:	Forced air
Maximum ambient temperature (Ta max.):	50° C (122° F)
Minimum ambient temperature (Ta min.):	0° C (32° F)

APPROVALS

EU safety:	EN 60950-1
EU EMC:	EN 55022, EN 55024, EN 61000-3-2, EN EN 61000-3-3
US safety:	UL 60950-1
Canadian safety:	CAN/CSA C22.2 No. 60950-1

INCLUDED ITEMS

EU-type power cable with Schuko connector	
US-type power cable	
UK-type power cable	
30 m (98.4 ft.) Ethernet data cable with IP67-rated RJ-45 connector:	P/N 11840145

ORDERING INFORMATION

Martin P3-200 System Controller:	P/N 90721020

P3-PC System Controller™

The P3-PC works as a PC-based P3 System Controller for smaller Martin LED display setups up to 20000 pixels; as an off-line editor for the P3-100 and P3-200 System Controllers to preprogram shows anywhere on a PC; and as a tool for firmware uploads and addressing/testing of Martin LED displays.

Features

- Based on award-winning P3 System Controller user interface
- Plays video on screens up to 20000 pixels
- Configurations can be conveniently imported/ exported onto a USB stick
- Showfile-compatible with P3-100 and P3-200 System Controllers
- Compatible with any standard PC running Windows
- Free download from Martin website

Specifications

CONTROL/USER INTERFACE

PC hardware dependent
No remotely controllable parameters

MINIMUM SYSTEM REQUIREMENTS

Windows XP, Vista and Windows 7 32/64 bit
Intel Core processor
1024 MB RAM (3 GB recommended)
100 MB available hard disk space
Display with 1024 x 768 resolution
USB 1.1 (or higher) port for Martin One-Key
Full administrator rights on PC
100/1000 Ethernet port for P3 output

VIDEO PROCESSING

Processor capacity:	20 000 pixels
Output resolution:	Any within 20 K pixel limit
Processing depth:	16 bit per color
System latency:	1 frame
Latency between first and last panel:	None
Video input:	On-screen capture window
Image rotation	
Scaling	
Gamma curve selection and adjustment	
Real-time panel content remapping	
Real-time color temperature control	

P3 SIGNAL PROTOCOL

Signal type:	Gigabit Ethernet
Protocol:	Proprietary Martin P3
Hot pluggable:	Yes, electrically isolated at all connections
Cable type:	Ethernet, CAT 5e or better
Cable length:	Up to 100 m (328.1 ft.) between any 2 devices, extendable with Ethernet switch
Max. number of panels per line:	50, extendable with Ethernet switch

INSTALLATION

Any standard PC running Windows Vista, XP or 7
(requires Martin One-Key USB stick with P3-PC License)

CONNECTIONS

P3 signal output to panels via PC network port

INCLUDED ITEMS

Martin One Key loaded with P3-PC License

ORDERING INFORMATION

Martin P3-PC License on One-Key USB stick:	P/N 90721030
P3-PC License code:	P/N 39808028

CONTROL

- M1
- M2GO
- M2PC
- M-PC
- iOS MAXRemote
- Maxxyz Compact
- MaxModule Cerebrum
- MaxModule Programmer
- MaxModule Playback
- MaxModule Submaster
- MaxModule Button
- MaxModule Frame

- LightJockey 2
- 2510 Controller
- Colorfox
- MUM/DABS1

- Maxedia Broadcast
- Maxedia PRO
- Maxedia Compact
- Maxedia Capture Card

- Martin ShowDesigner

- Ether2DMX8
- USB Duo DMX Interface
- Martin DMX 5.3 Splitter
- Martin RDM 5.5 Splitter

	Martin M1™	Maxxyz Compact™	M2GO™	M2PC™	MaxModule Button™	MaxModule Submaster™	MaxModule Playback™
Processor	Core 2	Pentium M	Embedded Dual Core	On PC	n/a	n/a	n/a
RAM	2GB	1GB	4GB	On PC	n/a	n/a	n/a
Internal Screen	1x Touch widescreen 1280x800	1x Touch 800x600	1 x 3.5" Touchscreen	1 x 3.5" Touchscreen	n/a	n/a	n/a
External Screen	1x VGA or 1x DVI max 3880x1024	1x VGA max 1920X1200	1x VGA 1X HDMI	On PC	n/a	n/a	n/a
DMX512 Out/in	4/1	4/1	4 bidirectional	2 (+ 2 optional) bidirectional	2/0	2/0	2/0
MIDI	In/Out/Thru (optional)	In/Out/Thru	In/Out/Thru (optional)	In/Out/Thru (optional)	n/a	n/a	n/a
SMPTE	External (optional)	1x XLR, 1x BNC	In/Out (optional)	In/Out (optional)	n/a	n/a	n/a
Playback Faders	10 x 60mm non Motorized	10 motorized	10 x 60 mm	10 x 60 mm	n/a	none	10 motorized
Playback LCD	None	10 x 60 mm motorized	No	No	30 high res	2x 40x2 char	10 high res
Playback Buttons	Go, Pause, Flash, Select	Go, Pause, Flash, Select			n/a	Flash (user define)	Go, Pause, Flash
Playback Submaster Faders	12 x 40mm faders	none	No	No	n/a	24 x 40mm faders	none
Playback Submaster Buttons	24 x tact-switch	none	No	No	30 x tact-switch	24 x tact-switch	none
Playback bank endcoder	2	1	No	No	3	1	2
Grandmaster + Bump	Yes	Yes	Yes	Yes	n/a	n/a	n/a
Flashmaster	No	Yes	No	No	n/a	n/a	n/a
Artnet Support	2048 Channels Basic 8192 with additional licenses	32 Universes, 16384 channels	8 Universes	Up to 64 Universes	n/a	n/a	n/a
Dimensions (L x W x H)	823 x 464 x 178 mm	730 x 700 x 300 mm	300 x 540 x 99 mm	300 x 540 x 99 mm	275 x 483 x 128 mm	275 x 483 x 128 mm	275 x 483 x 128 mm
Weight	14.4 kg (31.7 lb.)	31 kg (68.2 lb.)	5.2 kg	4.6 kg	4.9 kg (10.8 lb.)	4.6 kg (10.1 lb.)	4.6 kg (10.1 lb.)

M1™

M1 is the next generation lighting controller from Martin Professional. With the full power of a larger desk and the agility of a smaller one, the M1 is a state-of-the-art, all-in-one lighting desk. Following the philosophy and simplicity of our current controller platform, the Martin M1 sets a new standard as the most powerful and affordable full-featured lighting console on the market.

Features

- High resolution folding touchscreen
- Digital LCD buttons for fast and direct parameter access
- Multiple wing attachment (MaxModules)
- 4x DMX Universes direct from the console, up to 16 Universes with optional license
- Mx Manager Software for programming and triggering via time and calendar schedules
- Customizable Graphical User Interface with context sensitive toolbars and integrated help menu
- Powerful effects engine
- Controls up to 8192 parameters
- 1000 cuelists with fader control
- 1000 cuelists with playback control buttons
- Two separate playback sections
- Parallel execution of multiple cuelists
- Submaster, groupmaster and override functionality
- Parameter and time-fanning functionality
- Auto update for presets and cues
- On-the-fly global timing adjustments

Specifications

PHYSICAL

Length:	823 mm (32.4 in.)
Width:	464 mm (18.3 in.)
Height:	178 mm (7.0 in.) closed; 395 mm (15.6 in.) open
Weight:	14.4 kg (31.7 lbs.)

CONTROL AND PROGRAMMING

Protocol: DMX512A (RDM), Artnet2
4 DMX universes, expandable to 16
2048 channels, expandable to 8192
No limit to number of DMX channels per fixture
Extensive fixture library for all known manufacturers
65000 presets for each group of functions (P/T, color, gobo, etc.)
Effect generator for automated programming of complex effects
Relative or absolute programming
Fan function for all channels (including timing parameters)
On-the-fly global timing changes
Virtual cuelists
Macros
Wait, follow and link cues
HTP, LTP, chase, timecode, submaster and group master playback functionality
Individual parameter timings
Intuitive patch feature
Fixture type cloning
All channels with 16-bit resolution

CONTROL/USER INTERFACE

Main playback
10 x 60 mm (2.4 in.) playback faders, each with four function-assignable buttons
Sub playback
24 playbacks
12 x 40 mm (1.6 in.) playback faders with one assignable button
12 x single assignable buttons
Other controls
2 x scrollwheels for bank changes
12 x customizable multi-function keys
Playback Select button
Master Go section with Go, Pause, Snap and Release
4 x digital rotary encoders with push function and status LED for fixture parameter control
5 x dynamically labeled digital LCD buttons for parameter groups, effect parameters, fanning and global timings
Grand master fader and button
Blind/preview button
Customizable highlight/lowlight function
Customizable parameter defaults
Next/last fixtures/groups
Trackball with pan/tilt control switch
Left/right mouse button
Large command keys

PLAYBACK

Assign a cue, cuelist or effect to any playback fader
500 playback banks, each containing 10 playbacks
500 sub playback banks, each containing 24 playbacks
100 pages of 100 playbacks activated by touchscreen button
No limit to cues per cuelist
Full 16-bit fading for high-resolution fixtures
Individual fade in/fade out times for all playbacks
Manual override available at all times
Live 0-1000% override of global cue timings
Live programmer timing (Sneak)
Cuelists can be executed in tracking or non-tracking mode

M1™

Specifications

HARDWARE

Industrial 13.1-inch TFT 16:9 touchscreen (1280 x 800 pixels)	
Internal SATA 2.5 hard disk drive	
Modular construction	
Industrial motherboard with Intel Dual-Core processor	
2GB RAM	
Integrated graphics	
2 x dimmable XLR desk lamp connections	

SOFTWARE

Industrial Windows Embedded OS	
OS installation by USB storage device	
Show backup on hard disk or USB storage device (not included)	
Support for ELO USB touchscreens	

CONNECTIONS

4 x DMX universe outputs:	5-pin locking XLR
External monitor screen:	VGA or DVI
Artnet for up to 16 DMX:	RJ-45
MaxNet controller link:	RJ-45
2 x MaxModule Interface:	RJ45 Ethercon
7 x storage media/hardware peripherals:	USB 2.0
MIDI in/out/thru (MIDI show control, MIDI notes, MIDI timecode):	Optional
2 x desk lamps:	XLR
AC power input:	3-pin IEC
AC power throughput:	3-pin IEC (6 A max.)

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz

INCLUDED ITEMS

1.5 m (4.9 ft.) power cable, EU (Schuko), 3-pin IEC:	P/N 11501012
1.5 m (4.9 ft.) power cable, US, 3-pin IEC:	P/N 11501502
2 LED desk lamps w/angular plug:	P/N 91613037
User documentation CD	
Martin Show Designer-5 MC Edition 45-day trial 3D Visualizer	

ACCESSORIES

USB-MIDI port module:	P/N 91613038
LED desk lamp w/angular plug:	P/N 91613037

ORDERING INFORMATION

Martin M1 ts Console:	P/N 90732040
M1 Optional 4 DMX Universes Pack (max 3 per M1):	P/N 39808013
M1 Optional flightcase:	P/N 91535070

M2GO™

Equipped with a fast, dual-core processor with no external computer required, the M2GO answers the demand for a more powerful lighting console in a smaller form. It offers a professional level of features in a portable package and has been developed with cost, ergonomics, feature set, size and weight in mind. The Martin M2GO again sets a new standard as the most powerful and affordable full-featured lighting console on the market.

Features

- Built-in Industrial Dual Core CPU, 32GB SSD, 4GB RAM, HDMI, VGA, Dual Gigabit Artnet and Maxnet
- 3.5 touchscreen for fast and direct parameter access
- 4 digital encoders for parameters
- 8 customizable function keys
- 4 DMX ports standard; additional external DMX ports can be added as options
- Controls up to 4096 parameters
- Standard license for 4 Universes; up to 8 Universes with optional expansion license pack
- Customizable Graphical User Interface with context sensitive toolbars and integrated Help menu
- Powerful effects engine
- 1000 cuelists with fader control
- 1000 cuelists with playback control buttons
- Parallel execution of multiple cuelists
- Submaster, Groupmaster and Override functionality
- Parameter and Time-fanning functionality
- Auto update for presets and cues
- On-the-fly global timing adjustments
- Up to 4x DMX Universes direct from the console; up to 8 Universes with optional license
- Mx Manager Software for programming and triggering via time and calendar schedules
- Multiple wing attachment (MaxModules)

Specifications

PHYSICAL

Length:	300 mm (11.8 in.)
Width:	540 mm (21.2 in.)
Height:	99 mm (3.9 in.)
Weight:	5.2 kg (11.5 lbs.)

CONTROL AND PROGRAMMING

Protocol:	DMX512A (RDM), Artnet2

- 4 DMX universes, expandable to 8
- 2048 channels, expandable to 4096
- No limit to number of DMX channels per fixture
- Extensive fixture library for all known manufacturers
- 65000 presets for each group of functions (P/T, color, gobo, etc.)
- Effect generator for automated programming of complex effects
- Customizable highlight and lowlight function to identify individual fixtures
- Relative or absolute programming
- Fan function for all channels (including timing parameters)
- On-the-fly global timing changes
- Virtual cuelists
- Macros
- Wait, follow and link cues
- HTP, LTP, chase, timecode, submaster and group master playback functionality
- Individual parameter timings
- Intuitive patch feature
- Fixture type cloning
- All channels with 16-bit resolution

CONTROL/USER INTERFACE

Main playback interface:	Ten 60 mm (2.4 in.) playback faders, each with four function-assignable buttons

- Eight customizable multi-function keys
- Playback Select button
- Master Go section with Go, Pause, Snap and Release
- Four digital rotary encoders with push function and status LED for fixture parameter control
- 3.5 touch screen for parameter groups, effect parameters, fanning and global timings
- Grand master rotary fader and button
- Blind/preview button
- Customizable highlight/lowlight function
- Customizable parameter defaults
- Next/last fixtures/groups
- Large command keys

PLAYBACK

- Assign a cue, cuelist or effect to any playback fader
- 100 playback banks, each containing 10 playbacks
- 100 pages of 100 playbacks activated by touch screen button
- No limit to cues per cuelist
- Full 16-bit fading for high-resolution fixtures
- Individual fade in/fade out times for all playbacks
- Manual override available at all times
- Live 0-1000% override of global cue timings
- Live programmer timing (Sneak)
- Cuelists can be executed in tracking or non-tracking mode

HARDWARE

- Industrial 3.5” RGB touchscreen
- Internal 32 GB SSD storage drive
- Industrial motherboard with dual-core processor
- 4 GB RAM
- Integrated graphics processor

M2GO™

SOFTWARE

- Industrial Windows 7 embedded OS
- OS installation by USB storage device
- Show backup on SSD disk or USB storage device (not included)
- Supports Elo USB, generic Windows 7 and DisplayLink-compatible touch devices

CONNECTIONS

4 x DMX universe outputs:	5-pin locking XLR
External monitor screen:	VGA and HDMI
Artnet for up to 8 DMX universes in total:	Gigabit RJ-45
MaxNet controller link:	Gigabit RJ-45
5 x storage media/hardware peripherals:	USB 2.0

- Ready to receive internal MIDI module and SMPTE timecode module

Internal MIDI in/out/thru (MIDI show control, MIDI notes, MIDI timecode):	Optional
Internal SMPTE Timecode In/Out:	3-pin XLR (optional)
12 VDC power supply input:	4-pin XLR
Desk lamp (dimmable):	XLR

ELECTRICAL

AC mains power to 12 VDC external PSU (included):	100-240 V nominal, 50/60 Hz
Maximum current:	1.4 A
12 VDC output:	5 A, 60 W max.

INCLUDED ITEMS

- 1.5 m (4.9 ft.) power cable, EU (Schuko), 3-pin IEC
- 1.5 m (4.9 ft.) power cable, US, 3-pin IEC
- MW 12 VDC 5 A external PSU
- LED desk lamp w/angular plug
- Martin Show Designer 5 MC Edition 45-day trial 3D Visualizer
- User documentation CD

ACCESSORIES

Replacement 12 VDC external PSU:	P/N 91613100
Replacement LED desk lamp:	P/N 91613090

RELATED ITEMS

Martin Ether2DMX8:	P/N 90758130
Martin USB Duo USB/DMX interface box:	P/N 90703010

ORDERING INFORMATION

M2GO Console:	P/N 90737000
Two DMX Universes Expansion License:	P/N 39808031
Optional Two DMX Ports PCB:	P/N 90703030
Optional Midi PCB:	P/N 91613038
Optional SMPTE Timecode PCB:	P/N 90703040

M2PC™

M2PC is the complementary control surface to Martin's M-PC controller software. Featuring the same layout and portable size as the M2GO, the M2PC delivers a professional level of features directly from any PC. Following the philosophy and simplicity of our current controller platform, such as the Martin M1, the Martin M2PC is one of the most powerful and affordable PC-based lighting controllers on the market.

Features

- USB 2.0 Connection to Windows PC
- 3.5 touchscreen for fast and direct parameter access
- 4 digital encoders for parameters
- 8 customizable function keys
- 2 DMX ports standard; 2 additional internal DMX ports can be added as options
- Standard license for 4 Universes - up to 64 Universes with optional expansion license pack
- Controls up to 32768 parameters
- Customizable Graphical User Interface with context sensitive toolbars and integrated Help menu
- Powerful effects engine
- 1000 cuelists with fader control
- 1000 cuelists with playback control buttons
- Parallel execution of multiple cuelists
- Submaster, Groupmaster and Override functionality
- Parameter and Time-fanning functionality
- Auto update for presets and cues
- On-the-fly global timing adjustments
- Mx Manager Software for programming and triggering via time and calendar schedules
- Multiple wing attachment (MaxModules)

Specifications

PHYSICAL

Length:	300 mm (11.8 in.)
Width:	540 mm (21.2 in.)
Height:	99 mm (3.9 in.)
Weight:	4.6 kg (10.2 lbs.)

CONTROL AND PROGRAMMING

Protocol:	DMX512A (RDM), Artnet2
4 DMX universes, expandable to 64	
2048 channels, expandable to 32768	
No limit to number of DMX channels per fixture	
Extensive fixture library for all known manufacturers	
65000 presets for each group of functions (P/T, color, gobo, etc.)	
Effect generator for automated programming of complex effects	
Customizable highlight and lowlight function to identify individual fixtures	
Relative or absolute programming	
Fan function for all channels (including timing parameters)	
On-the-fly global timing changes	
Virtual cuelists	
Macros	
Wait, follow and link cues	
HTP, LTP, chase, timecode, submaster and group master playback functionality	
Individual parameter timings	
Intuitive patch feature	
Fixture type cloning	
All channels with 16-bit resolution	

CONTROL/USER

Interface Main playback interface:	Ten 60 mm (2.4 in.) playback faders, each with four function-assignable buttons
Eight customizable multi-function keys	
Playback Select button	
Master Go section with Go, Pause, Snap and Release	
Four digital rotary encoders with push function and status LED for fixture parameter control	
3.5 touch screen for parameter groups, effect parameters, fanning and global timings	
Grand master rotary fader and button	
Blind/preview button	
Customizable highlight/lowlight function	
Customizable parameter defaults	
Next/last fixtures/groups	
Large command keys	

PLAYBACK

Assign a cue, cuelist or effect to any playback fader
100 playback banks, each containing 10 playbacks
100 pages of 100 playbacks activated by touch screen button
No limit to cues per cuelist
Full 16-bit fading for high-resolution fixtures
Individual fade in/fade out times for all playbacks
Manual override available at all times
Live 0-1000% override of global cue timings
Live programmer timing (Sneak)
Cuelists can be executed in tracking or non-tracking mode

SOFTWARE

Uses Martin M-PC software on any Windows XP, Windows 7 (32 or 64-bit) PC

M2PC™

Specifications

CONNECTIONS

2 x DMX universe outputs:	5-pin locking XLR
Additional 2 x internal DMX universe outputs:	5-pin locking XLR (optional)
Ready to receive internal MIDI module and SMPTE timecode module	
Internal MIDI in/out/thru (MIDI show control, MIDI notes, MIDI timecode):	Optional
Internal SMPTE Timecode In/Out:	3-pin XLR (optional)
12 VDC power supply input:	4-pin XLR
Desk lamp:	XLR

ELECTRICAL

AC mains power to 12 VDC external PSU (included):	100-240 V nominal, 50/60 Hz
Maximum current:	1.4 A
12 VDC output:	5 A, 60 W max.

INCLUDED ITEMS

1.5 m (4.9 ft.) power cable, EU (Schuko), 3-pin IEC
1.5 m (4.9 ft.) power cable, US, 3-pin IEC
MW 12 VDC 5 A external PSU
LED desk lamp w/angular plug
Martin Show Designer 5 MC Edition 45-day trial 3D Visualizer
User documentation CD

ACCESSORIES

Replacement 12 VDC external PSU:	P/N 91613100
Replacement LED desk lamp:	P/N 91613090

RELATED ITEMS

Martin Ether2DMX8:	P/N 90758130
Martin USB Duo USB/DMX interface box:	P/N 90703010

ORDERING INFORMATION

M2PC Console:	P/N 90737010
Two DMX Universes Expansion License:	P/N 39808031
Optional Two DMX Ports PCB:	P/N 90703030
Optional Midi PCB:	P/N 91613038
Optional SMPTE Timecode PCB:	P/N 90703040

MPC™

This Windows-compatible version of the Maxxyz and M-Series console is an online and offline editing tool that gives you total functionality from the ease and convenience of a PC or laptop. It is ideal for training purposes and preprogramming of shows.

Features

- Support for 64 DMX universes in Pro Edition and 8 in Basic Edition
- Offline and online programming
- 1024 channels in Demo mode using Martin USB Duo DMX or Martin Universal USB DMX interface
- Mx Manager Software for programming and triggering via time and calendar schedules
- Customizable Graphical User Interface with context sensitive toolbars and integrated help menu
- Powerful effects engine
- Controls up to 32768 fixtures in Pro Edition (4096 in Basic Edition)
- 1000 cuelists with motorized fader control
- 1000 cuelists with playback control buttons
- Keyboard shortcuts
- 12 customizable function keys
- Parallel execution of multiple cuelists
- Submaster, groupmaster and override functionality
- 3D visualizer integrated
- Full compatibility with Maxxyz and M-Series console
- Fanning functionality
- Auto update for presets and cues, including 'track backwards'
- On-the-fly global timing adjustments
- Networking with Maxedia media server CITP protocol

Specifications

CONTROL AND PROGRAMMING

Protocol: DMX512, Artnet RDM compatible
Up to 64 DMX universes, (8 in Basic Edition)
Up to 32768 channels in Pro Edition (4096 in Basic Edition)
No limit to number of DMX channels per fixture
Martin Show Designer-5 MC Edition 45-day trial 3D Visualizer
Extensive fixture library for all known manufacturers
65000 presets for each group of functions (P/T, color, gobo, etc.)
Effect generator for automated programming of complex effects
Customizable highlight and lowlight function to identify individual fixtures
Relative or absolute programming
Fan function for all channels (including timing parameters)
On-the-fly global timing changes
Virtual cuelists
Macros
Wait, follow and link cues
HTP, LTP, chase, timecode, submaster and group master playback functionality
Individual parameter timings
Intuitive patch feature
Fixture type cloning
All channels with 16-bit resolution

CONTROL/USER INTERFACE

All controls listed below are virtual, on-screen only, and are operated via touch screen or mouse click

Real-world paradigm intuitive interface
(images, dynamic text labels and actuals prefered to figures)
10 x playback faders, each with one dynamically labeled LCD button (to identify/activate playback) and two function-assignable buttons
8 x digital fader belts for fixture parameter control
15 x dynamically labeled digital LCD buttons for parameter groups, functions, effect parameters, fanning, global timings
Grand master fader and button
Flash master fader and button
Two group master faders and buttons
16 x view buttons, 4 x view scroll buttons
Blind/preview button
12 x customizable function keys, F1 to F12
Highlight function
Next/last fixtures/groups
Numeric and functional keypad
Main playback control section

PLAYBACK

Assign a cue, cuelist or effect to any playback fader
500 playback banks, each containing 10 playbacks, can all be active simultaneously
No limit to cues per cuelist
100 pages of 100 playbacks activated by touch screen button
Full 16-bit fading for high-resolution fixtures
Individual fade in/fade out times for all playbacks
Manual override available at all times
Live 0-1000% override of global cue timings
Live programmer timing ("Sneak")
Go-function (supports multiple cues simultaneously)
Cuelists can be executed in tracking or non-tracking mode

MPC™

MINIMUM SYSTEM REQUIREMENTS

Windows XP (Home or Pro) with SP3 (Windows 7 Pro recommended)
Pentium 4 (Intel Core Duo recommended)
1024 MB RAM (3 GB recommended)
500 MB available hard disk space
Display with 1024 x 768 resolution
CD-ROM drive
USB 1.1 (or higher) port for dongle
Full administrator rights on PC
USB 1.1 (or higher) port if Martin Universal USB/DMX Interface or Martin USB Duo DMX Interface is used
10/100 Ethernet port for ArtNet DMX output
Second Ethernet port required for remote communication such as CITP or Backup system.

ENVIRONMENT

Up to 64 DMX universes with M-PC Pro and 8 DMX universes with M-PC Basic
Direct communication with MaxModules via USB
ArtNet-compatible DMX distribution
Supports Martin Universal USB/DMX Interface and Martin USB Duo DMX Interface
Supports All MaxModules
Free Mx Manager add-on for custom user interfaces and advanced scheduling, astronomical clock, supports GPS, commands by RS232, Telnet, HTML
Martin Show Designer-5 MC Edition 45-day trial 3D Visualizer
Compatible with Martin Show Designer
Sending on DMX channels requires the dongle and additional hardware such as the Universal USB/DMX Interface or USB Duo DMX Interface

INCLUDED ITEMS

M-PC protection dongle
M-PC installation CD
MSD-5 MC Edition 45-day trial 3D Visualizer
Martin USB Duo DMX: P/N 90703010

ACCESSORIES

Ether2DMX8: P/N 90758130
MaxModule Programmer: P/N 90732150
MaxModule Playback: P/N 90732180
MaxModule Submaster: P/N 90732170
MaxModule Button: P/N 90732160

ORDERING INFORMATION

M-PC Pro: P/N 90732010
M-PC Basic: P/N 90732070
MPC Basic (8 universes max license only): P/N 39808017
MPC Pro (64 universes max license only): P/N 39808016

iOS MAXRemote™

The iOS MAXRemote is your personal assistant to remotely control lighting devices straight from an iPhone, iPad or iPod touch. It is the ultimate remote tool for the Martin Maxxyz, M-Series lighting console and M-PC - the ideal tool for updating presets on stage. It features a beautiful user interface and original features. The iOS MAXRemote is available exclusively through the Apple Store at no charge.

Features

- Automatic discovery
- Controls Maxxyz and M-Series remotely
- Black skin for dark environments
- Integrated help
- Passcode protected
- Saves show data for fast follow up synchronization
- Controls all fixtures in a show
- Integrated fixture search
- Create and edit presets
- Pan/Tilt view with built-in accelerometer support under sensor mode
- Color picker with support for Lee, Rosco and GAM filters
- Easy manipulation of all DMX channels
- Fast menu appears when shaking device (clears values quickly)
- Browse through fixture groups in a cover flow-like interface under landscape mode
- Start, pause and release cuelists, chases, etc.
- Exclusively for iPhone, iPad and iPod touch

Maxxyz Compact™

Maxxyz Compact offers full M-Series functionality and an intuitive philosophy in a mid-sized console. Its compact size and modular design make this professional lighting console ideal for all manner of productions.

Features

- Digital LCD buttons for fast and direct programming
- Multiple wing attachment (MaxModules)
- Up to 32 DMX universes, 4 available directly from the console
- Mx Manager Software for programming and triggering via time and calendar schedules
- Customizable Graphical User Interface with context sensitive toolbars and integrated help menu
- Powerful effects engine
- Controls up to 16384 fixtures
- 1000 cuelists with motorized fader control
- 1000 cuelists with playback control buttons
- 5 customizable LCD function keys
- Parallel execution of multiple cuelists
- Submaster, groupmaster and override functionality
- Parameter and time-fanning functionality
- Auto update for presets and cues
- On-the-fly global timing adjustments

Specifications

PHYSICAL

Length:	730 mm (28.7 in.)
Width:	700 mm (27.6 in.)
Height:	300 mm (11.8 in.)
Weight:	31 kg (68.3 in.)

Specifications

CONTROL AND PROGRAMMING

Protocol:	DMX512, Artnet (ACN and RDM pending)
4 DMX universes, expandable to 32	
2048 channels, expandable to 16384	
No limit to number of DMX channels per fixture	
Extensive fixture library for all known manufacturers	
65000 presets for each group of functions (P/T, color, gobo, etc.)	
Effect generator for automated programming of complex effects	
Customizable highlight and lowlight function to identify individual fixtures	
Relative or absolute programming	
Fan function for all channels (including timing parameters)	
On-the-fly global timing changes	
Virtual cuelists	
Macros	
Wait, follow and link cues	
HTP, LTP, chase, timecode, submaster and group master playback functionality	
Individual parameter timings	
Intuitive patch feature	
Fixture type cloning	
All channels with 16-bit resolution	

CONTROL/USER INTERFACE

10 x motorized playback faders, each with one dynamically labeled LCD button (to identify/activate playback) and two function-assignable buttons
4 x digital fader belts for fixture parameter control
10 x dynamically labeled digital LCD buttons for parameter groups, functions, effect parameters, fanning, global timings
Grand master fader and button
Flash master fader and button
Trackball with pan/tilt control switch
16 x view buttons, 2 x view scroll buttons
Blind/preview button
10 x pause/back buttons
10 x go buttons
10 x flash buttons
5 x customizable function keys, LCD buttons
Customizable highlight/lowlight function
Next/last fixtures/groups
Left/right mouse button
Digital encoder wheels for window scrolling and screen/desk lamp intensity

PLAYBACK

Assign a cue, cuelist or effect to any playback fader
500 playback banks, each containing 10 playbacks, can all be active simultaneously
No limit to cues per cuelist
100 pages of 100 playbacks activated by touch screen button
Full 16-bit fading for high-resolution fixtures
Individual fade in/fade out times for all playbacks
Manual override available at all times
Live 0-1000% override of global cue timings
Live programmer timing ("Sneak")
Go-function (supports multiple cues simultaneously)
Cuelists can be executed in tracking or non-tracking mode

Maxxyz Compact™

HARDWARE

Industrial SVGA 12.1" TFT color touch monitor screen
Internal SATA 2.5" hard disc drive
Modular construction
Industrial motherboard with Pentium M processor
DVD/CD drive (not intended for movie playback)
2 x integrated dimmable LED desk lamps
Integrated slide-out QWERTY keyboard

APPROVALS

EU safety:	EN 60950-1
EU EMC:	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
US safety:	UL 60950-1
Canadian safety:	CAN/CSA C22.22 No. 60950-1

SOFTWARE

Industrial Windows XP Embedded OS (not user-accessible)
Real-world paradigm intuitive interface (images, dynamic text labels and actuals)
Show backup on hard disk or USB storage device (not included)
Compatible with Martin ShowDesigner

CONNECTIONS

4 x DMX universe outputs:	5-pin locking XLR
External monitor screen:	VGA
Artnet for addition of up to 32 DMX universes:	RJ-45
MaxNet controller link:	RJ-45
2 x MaxModules interfaces:	RJ-45
4 x storage media/hardware peripherals:	USB 2.0
MIDI in/out/thru (MIDI show control, MIDI notes, MIDI timecode):	Standard MIDI (5-pin DIN)
SMPTE timecode in:	3-pin locking XLR
LTC timecode in:	BNC
2 x desk lamps:	XLR
AC power input:	3-pin IEC

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz

INCLUDED ITEMS

Maxxyz Compact dust cover:	P/N 33302008
Maxxyz Compact monitor bracket, left:	P/N 55732076
Maxxyz Compact monitor bracket, right:	P/N 55732074
Four 3-pin female to 5-pin male XLR adapters:	P/N 91613024
1.5 m (4.9 ft.) power cable, 3-pin IEC:	P/N 11501012
User documentation CD	
Martin Show Designer-5 MC Edition 45-day trial 3D Visualizer	

ACCESSORIES

Maxxyz Compact desk lamp:	P/N 91613036
Ether2DMX8:	P/N 90758130
MaxModule Playback:	P/N 90732180
MaxModule Submaster:	P/N 90732170
MaxModule Button:	P/N 90732160
MaxModule Frame (empty) in Flightcase:	P/N 90732120
MaxModule Frame (empty) in Cardboard Box:	P/N 90732130

ORDERING INFORMATION

Maxxyz Compact Controller:	P/N 90732020

MaxModule Cerebrum™

The Cerebrum module is a compact yet powerful touch-screen computer and the heart of the MaxModule concept. It runs the lighting software on Windows XP Embedded which controls the Maxxyz Compact and M-Series. The MaxModule Cerebrum can also be used as a stand-alone unit for control in installations and also functions as a backup system for any Maxxyz, M-Series and M-PC or other Cerebrum module.

Features

- Industrial motherboard with Pentium M processor
- Industrial SVGA 12.1_ TFT color touch monitor screen
- Real-world paradigm intuitive interface (images, dynamic text labels and actuals)
- Customizable GUI (Graphic User Interface)
- 16 x view buttons, 2 x view scroll buttons
- 2 physical DMX universes, expandable to 32 via Artnet or USB/DMX interface
- Mx Manager for scheduling (astronomical clock) and remote triggering via Internet

Specifications

PHYSICAL

Length:	275 mm (10.8 in.)
Width:	483 mm (19.0 in.)
Height:	182 mm (7.2 in.)
Weight:	7.3 kg (16.1 lbs.)

CONTROL AND PROGRAMMING

Protocol:
DMX512, Artnet (ACN and RDM pending)
2 physical DMX universes, expandable to 32 via Artnet or USB/DMX interface
32 universes or 16384 channels from a single Cerebrum
No limit to number of DMX channels per fixture
Extensive fixture library for all known manufacturers
65000 presets for each group of functions (P/T, color, gobo, etc.)
Effect generator for automated programming of complex effects
Customizable highlight and lowlight function to identify individual fixtures
Relative or absolute programming
Fan function for all channels (including timing parameters)
On-the-fly global timing changes
Virtual cuelists
Macros
Wait, follow and link cues
HTP, LTP, chase, timecode, submaster and group master playback functionality
Individual parameter timings
Intuitive patch feature
Fixture type cloning
Mx Manager for scheduling (astronomical clock) and remote triggering via Intenet

CONTROL/USER INTERFACE

Customizable GUI
Grand master fader and button
Flash master fader and button
16 x view buttons, 2 x view scroll buttons
Customizable highlight/lowlight function
Digital encoder wheels for window scrolling and screen/desk lamp intensity

PLAYBACK

Full 16-bit fading for high-resolution fixtures
Individual fade in/fade out times for all playbacks
Manual override available at all times
Live 0-1000% override of global cue timings
Live programmer timing (Sneak)
Go-function (supports multiple cues simultaneously)
Cuelists can be executed in tracking or non-tracking mode

HARDWARE

Industrial SVGA 12.1 TFT color touch monitor screen
Internal SATA 2.5 hard disk drive
Modular construction
Industrial motherboard with Pentium M processor
Internal Martin One-Key software protection dongle

SOFTWARE

Industrial Windows XP Embedded OS (not user-accessible)
Real-world paradigm intuitive interface (images, dynamic text labels and actuals)
Show backup on hard disk or USB storage device (not included)
Compatible with Martin ShowDesigner

CONNECTIONS

DMX in:	5-pin locking XLR
DMX out:	5-pin locking XLR
External monitor screen:	VGA (15- pin D-sub female)
Artnet for addition of up to 32 DMX universes:	Neutrik RJ-45 socket (accepts Neutrik EtherCon connectors in housing)
M-Series/Maxedia multiple controller link USB:	Neutrik RJ-45 socket (accepts Neutrik EtherCon connectors in housing)
Ethernet for multiple controller link:	Neutrik RJ-45 socket (accepts Neutrik EtherCon connectors in housing)
USB devices:	USB host socket
Desk lamp:	2.5 mm (0.1 in.) DC bayonet
Microphone:	6.3mm (1/4-inch) mono jack
Audio in/out:	RCA phono
AC power input:	3-pin IEC male socket
AC power throughput:	3-pin IEC female socket

MaxModule Cerebrum™

Specifications

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Power supply unit:	Auto-ranging electronic switch-mode
Main fuses:	2 AT (x 2)
Desk lamp output:	12 V
AC power output:	Unswitched, unfused, max. 6 A

APPROVALS

EU safety:	EN 60950-1
EU EMC:	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
US safety:	UL 60950-1
Canadian safety:	CAN/CSA C22.22 No. 60950-1

INCLUDED ITEMS

1.5 m (4.9 ft.) power cable, 3-pin IEC:	P/N 11501012
Ethercon patch cable:	P/N 11840144
USB cable (A/B), 1000 mm (39.4 in.):	P/N 11840066
Recovery DVD, Maxxyz Compact/Cerebrum	
Martin Show Designer-5 MC Edition 45-day trial 3D Visualizer	

ORDERING INFORMATION

MaxModule Cerebrum:	P/N 90732140
MaxModule Frame (empty) in Flightcase:	P/N 90732120
MaxModule Frame (empty) in Cardboard Box:	P/N 90732130

MaxModule Programmer™

The Programmer module is the main control unit of the M-Series system. This module can be used with the Cerebrum or with the M-PC software and it allows the user to be quick and efficient while programming a show - the perfect startup M-Series Console.

Features

- 4 x digital fader belts for fixture parameter control
- Trackball with pan/tilt control switch
- Blind/preview button
- Customizable highlight/lowlight function
- Next/last fixtures/groups
- Left/right mouse button
- Customizable LCD function keys for function shortcuts
- M-PC key built-in
- Built-in M-PC dongle and 2 built-in DMX ports

Specifications

PHYSICAL

Length:	275 mm (10.8 in.)
Width:	483 mm (19.0 in.)
Height:	128 mm (5.0 in.)
Weight:	5 kg (11.0 lbs.)

MaxModule Programmer™

Specifications

CONTROL/USER INTERFACE	
4 x digital fader belts for fixture parameter control	
Trackball with pan/tilt control switch	
Blind/preview button	
Customizable highlight/lowlight function	
Next/last fixtures/groups	
Left/right mouse button	
Customizable LCD function keys for function shortcut	
CONNECTIONS	
M-Series/Maxedia multiple controller link USB:	Neutrik locking RJ45 Ethercon sockets
DMX out:	2 x 5-pin female locking XLR
USB input:	USB device socket
USB devices:	USB host socket
Desk lamp:	2.5 mm (0.1 in.) DC bayonet
AC power input:	3-pin IEC male socket
AC power throughput:	3-pin IEC female socket
ELECTRICAL	
AC power:	100-240 V nominal, 50/60 Hz
Power supply unit:	Auto-ranging electronic switch-mode
Main fuse:	2 AT (slow blow)
Desk lamp output:	12 V
AC power output:	Unswitched, unfused, max. 6 A
APPROVALS	
EU safety:	EN 60950-1
EU EMC:	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
US safety:	UL 60950-1
Canadian safety:	CAN/CSA C22.22 No. 60950-1
INCLUDED ITEMS	
M-PC key installed internally	
1.5 m (4.9 ft.) power cable, 3-pin IEC:	P/N 11501012
Ethercon patch cable:	P/N 11840144
USB cable:	P/N 11840066
DVD with M-PC and Mx Manager software	
Martin Show Designer-5 MC Edition 45-day trial 3D Visualizer	
ORDERING INFORMATION	
MaxModule Programmer:	P/N 90732150
MaxModule Frame (empty) in Flightcase:	P/N 90732120
MaxModule Frame (empty) in Cardboard Box:	P/N 90732130

MaxModule Playback™

The Playback module extends the playback capabilities of any M-Series console by adding 10 motorized faders with 15 LCD buttons and a master Go section. Up to 16 Playback modules can be added to any MaxModule Cerebrum, Maxxyz, M-Series consoles or M-PC.

Features

- 10 x motorized playback faders, each with one dynamically labeled LCD button (to identify/activate playback) and two function-assignable buttons
- 10 x pause/back buttons
- 10 x go buttons
- 10 x flash buttons
- 5 x LCD navigation buttons with scroll wheel
- Master Go section
- Built-in M-PC dongle and 2 built-in DMX ports

Specifications

PHYSICAL	
Length:	275 mm (10.8 in.)
Width:	483 mm (19.0 in.)
Height:	128 mm (5.0 in.)
Weight:	4.6 kg (10.1 lbs.)

MaxModule Playback™

Specifications

CONTROL/USER INTERFACE

10 x motorized playback faders, each with one dynamically labeled LCD button (to identify/activate playback) and two function-assignable buttons	
10 x pause/back buttons	
10 x go buttons	
10 x flash buttons	
5 x LCD navigation buttons with scroll wheel	
Master Go section	

CONNECTIONS

M-Series/Maxedia multiple controller link USB:	Neutrik locking RJ45 Ethercon sockets
DMX out:	2 x 5-pin female locking XLR
USB input:	USB device socket
USB devices:	USB host socket
Desk lamp:	2.5 mm (0.1 in.) DC bayonet
AC power input:	3-pin IEC male socket
AC power throughput:	3-pin IEC female socket

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Power supply unit:	Auto-ranging electronic switch-mode
Main fuse:	2 AT (slow blow)
Desk lamp output:	12 V
AC power output:	Unswitched, unfused, max. 6 A

APPROVALS

EU safety:	EN 60950-1
EU EMC:	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
US safety:	UL 60950-1
Canadian safety:	CAN/CSA C22.22 No. 60950-1

INCLUDED ITEMS

M-PC key installed internally	
1.5 m (4.9 ft.) power cable, 3-pin IEC:	P/N 11501012
Ethercon patch cable:	P/N 11840144
USB cable:	P/N 11840066
DVD with M-PC and Mx Manager software	
Martin Show Designer-5 MC Edition 45-day trial 3D Visualizer	

ORDERING INFORMATION

MaxModule Playback:	P/N 90732180
MaxModule Frame (empty) in Flightcase:	P/N 90732120
MaxModule Frame (empty) in Cardboard Box:	P/N 90732130

MaxModule Submaster™

The Submaster module provides the user with an additional 24 handles of controls for cuelists, channels, submasters or inhibitives. Combined with a MaxModule Cerebrum, Maxxyz, M-Series consoles or M-PC, the Submaster module makes it easy and relatively inexpensive to build a 24, 48 or even 96 fader desk - the perfect startup theater console.

Features

- 24 x non-motorized faders with single function button (every cuelist type supported)
- 40-character display for labeling
- 5 x LCD navigation buttons with scroll wheel
- Built-in M-PC dongle and 2 built-in DMX ports

Specifications

PHYSICAL

Length:	275 mm (10.8 in.)
Width:	483 mm (19.0 in.)
Height:	128 mm (5.0 in.)
Weight:	4.6 kg (10.1 lbs.)

MaxModule Submaster™

Specifications

CONTROL/USER INTERFACE	
24 x non-motorized faders with single function button (every cuelist type supported)	
40-character display for labeling	
5 x LCD navigation buttons with scroll wheel	
CONNECTIONS	
M-Series/Maxedia multiple controller link USB:	Neutrik locking RJ45 Ethercon sockets
DMX out:	2 x 5-pin female locking XLR
USB input:	USB device socket
USB devices:	USB host socket
Desk lamp:	2.5 mm (0.1 in.) DC bayonet
AC power input:	3-pin IEC male socket
AC power throughput:	3-pin IEC female socket
ELECTRICAL	
AC power:	100-240 V nominal, 50/60 Hz
Power supply unit:	Auto-ranging electronic switch-mode
Main fuse:	2 AT (slow blow)
Desk lamp output:	12 V
AC power output:	Unswitched, unfused, max. 6 A
APPROVALS	
EU safety:	EN 60950-1
EU EMC:	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
US safety:	UL 60950-1
Canadian safety:	CAN/CSA C22.22 No. 60950-1
INCLUDED ITEMS	
M-PC key installed internally	
1.5 m (4.9 ft.) power cable, 3-pin IEC:	P/N 11501012
Ethercon patch cable:	P/N 11840144
USB cable:	P/N 11840066
DVD with M-PC and Mx Manager software	
ORDERING INFORMATION	
MaxModule Submaster:	P/N 90732170
MaxModule Frame (empty) in Flightcase:	P/N 90732120
MaxModule Frame (empty) in Cardboard Box:	P/N 90732130

MaxModule Button™

The Button module offers up to 30 customizable direct access buttons to satisfy the ever-increasing demand for more direct access on live shows. Each row of 10 buttons is individually assignable to cuelists, groups, fixtures or presets by the simple press of a Mode button. Each row includes 10 LCD buttons, 10 flash buttons and one scroll wheel for direct access to other banks, pages or rows. MaxModule Button also works directly with the Maxedia media server as a playback device.

Features

- 3 rows of 10 x LCD function buttons
- 5 x LCD navigation buttons with scroll wheel
- Digital fader belt for intensity, speed and timing controls
- Mode buttons for assigning operating mode to each row
- Playback button mode and fixture, group and preset selection modes available
- Built-in M-PC dongle and 2 built-in DMX ports

Specifications

PHYSICAL	
Length:	275 mm (10.8 in.)
Width:	483 mm (19.0 in.)
Height:	128 mm (5.0 in.)
Weight:	4.9 kg (10.8 lbs.)

MaxModule Button™

Specifications

CONTROL/USER INTERFACE

3 rows of 10 x LCD function buttons
5 x LCD navigation buttons with scroll wheel
Digital fader belt for intensity, speed and timing controls
Mode buttons for assigning operating mode to each row
Playback button mode and fixture, group and preset selection modes available

CONNECTIONS

M-Series/Maxedia multiple controller link USB:	Neutrik locking RJ45 Ethercon sockets
DMX out:	2 x 5-pin female locking XLRUSB input: USB device socket
USB devices:	USB host socket
Desk lamp:	2.5 mm (0.1 in.) DC bayonet
AC power input:	3-pin IEC male socket
AC power throughput:	3-pin IEC female socket

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Power supply unit:	Auto-ranging electronic switch-mode
Main fuse:	2 AT (slow blow)
Desk lamp output:	12 V
AC power output:	Unswitched, unfused, max. 6 A

APPROVALS

EU safety:	EN 60950-1
EU EMC:	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
US safety:	UL 60950-1
Canadian safety:	CAN/CSA C22.22 No. 60950-1

INCLUDED ITEMS

M-PC key installed internally1.5 m (4.9 ft.) power cable, 3-pin IEC:	P/N 11501012
Ethercon patch cable:	P/N 11840144
USB cable:	P/N 11840066

DVD with M-PC and Mx Manager software
Martin Show Designer-5 MC Edition 45-day trial 3D Visualizer

ORDERING INFORMATION

MaxModule Button:	P/N 90732160
MaxModule Frame (empty) in Flightcase:	P/N 90732120
MaxModule Frame (empty) in Cardboard Box:	P/N 90732130

MaxModule Frame™

The MaxModule Frame can accept up to two MaxModules of any kind (except the Cerebrum which only fits in the upper position), making it possible to combine different modules in the same frame - thereby customizing it for a specific application. The included blind plate can be used to hold a laptop or notes and paperwork.

Features

- Supports two MaxModules
- Power and data connections built-in
- Built-in desk lamp
- Blind plate for paper notes or laptop support included

Specifications

PHYSICAL

Length:	695 mm (27.4 in.)
Width:	526 mm (20.7 in.)
Height:	336 mm (13.2 in.)
Weight:	10.3 kg (22.7 lbs.)

CONNECTIONS

M-Series/Maxedia multiple controller link USB:	Neutrik locking RJ45 Ethercon sockets
AC power input:	3-pin IEC male socket
AC power throughput:	3-pin IEC female socket

INCLUDED ITEMS

Desk lamp and cable	
Ethercon and power interconnect cables	
Blind cover plate (installed):	P/N 62406159
1.5 m (4.9 ft.) power cable, 3-pin IEC:	P/N 11501012

ACCESSORIES

Maxxyz Compact monitor bracket, left:	P/N 55732076
Maxxyz Compact monitor bracket, right:	P/N 55732074
3-pin female to 5-pin male XLR adapters:	P/N 91613024
1.5 m (4.9 ft.) power cable, 3-pin IEC:	P/N 11501012
Wheel set for MaxModules flightcase	
Fligtcase for MaxModule Frame:	P/N 91535007
Blind cover plate for MaxModule Frame:	P/N 62406159
Shielded CAT 5e Ethercon cable, ferrite cores, RJ45 connectors in Neutrik shells, 2m:	P/N 11840144

ORDERING INFORMATION

MaxModule Frame (empty) in Flightcase:	P/N 90732120
MaxModule Frame (empty) in Cardboard Box:	P/N 90732130

LightJockey 2™

LightJockey 2 is a flexible, easy-to-use Windows-based controller utilizing a USB to DMX Interface. One of the industry's most popular PC-Based controllers for well over a decade, LightJockey 2 offers lighting designers greater flexibility, spontaneity and ease of use in a user-focused control package.

Features

- Windows XP, Windows Vista, Windows 7 (32bit and 64bit) based lighting control software
- Large fixture library and user-configurable editor
- Martin Show Designer-5 MC Edition 45-day trial 3D Visualizer
- Supports MP3, audio CD, SMPTE and MIDI timecode
- Martin USB Duo DMX Interface with 2 x 512 Channels DMXIN/Out
- Control of up to 100 fixtures, 2048 DMX channels
- Graphical representation of all fixture functions
- Add-on LightJockey Manager, free downloadable software for scheduling events
- LED-Trix plug-in included for programming color-mixing fixtures

Specifications

PHYSICAL

Shipping Length:	275 mm (10.8 in.)
Shipping Width:	75 mm (3.0 in.)
Shipping Height:	325 mm (12.8 in.)
Shipping Weight:	1.4 kg (3.1 lbs.)

CONTROL AND PROGRAMMING

Trig sources: Manual, auto, audio input with FFT analyser, DMX in, MIDI, LightJockey Manager
Cue list time code synchronisation (CLTCS) options
Internal timer, including 24-hour clock
Audio CD time code from CD-ROM drive
Digital Audio (MP3, Wav, etc.) time code using Winamp™
MIDI Time code, SMPTE with suitable SMPTE/MTC interface

PROGRAMMING

Number of fixtures:	Up to 100
Fixture library:	All Martin (DMX) fixtures, user-definable profiles for non-Martin fixtures, generic DMX profiles
Control:	Graphical control of all fixture parameters
Visualization:	Martin Show Designer-5 MC Edition 45-day trial 3D Visualizer
Macros:	Pan and tilt, relative or absolute movement, shape generator with different shapes and delay styles

LightJockey Manager trigger options

PLAYBACK

Cue contains 12 sequences with global or individual fade time adjustment
Master intensity control + 8 configurable intensity groups
Manual override with direct access to all functions
Independent background cue with 5 parallel sequences
Blackout and fade out function
Go button for manual cue lists
Assignable keyboard hotkeys for faster access
Smoke control independent from programming
Follow spot function
Cue list for synchronisation with timer, digital audio or Audio CD-ROM timecode
Audio analyser for trigging sequences by audio
Function and DMX channel override via DMX IN (depending on interface type)

MINIMUM SYSTEM REQUIREMENTS

64 MB RAM
Standard PC with Pentium 200 MHz or equivalent
Monitor resolution of 800 x 600 in 16 bit colors, with small fonts
USB port for DMX interface hardware
20+ MB hard disc space
Windows XP/Vista/7 (32bit and 64bit)

RECOMMENDED

1024+ MB RAM
Fast graphic card with minimum 256MB
Note: MSD-5 MC Edition 3D visualizer requires good 3D gaming graphic card and 2 Gig RAM Minimum
Pentium 4 or faster
1024 x 768 monitor resolution, 32-bit true color
USB port for DMX interface hardware
Network card (optional)
300+ MB available hard disc space
Windows XP/Vista/7 (32bit and 64bit)

INCLUDED ITEMS

Martin LightJockey DMX Software CD	
Martin USB Duo DMX Interface and cables:	P/N 90703010

ACCESSORIES

2510 Controller, 110-130 V, 60 Hz:	P/N 90716100
2510 Controller, 220-240 V, 50 Hz:	P/N 90716000
Martin USB Duo DMX:	P/N 90703010

ORDERING INFORMATION

LightJockey Kit with Martin One-Key and Martin USB Duo DMX:	P/N 90702070
LightJockey (License only):	P/N 39808015

2510 Controller™

The 2510 Controller is a powerful playback controller for an easy and inexpensive hardware-based control solution.

Features

- Record up to 512 DMX channels from LightJockey
- Easy playback with manual selection of sequences
- Up to 10 sub-lists of sequences
- Music input for triggering scenes
- Blackout function
- Download free pre-programmed shows for Mania SCX and Mania EFX series

Specifications

PHYSICAL

Length:	483 mm (19.0 in.)
Width:	65 mm (2.6 in.)
Height:	89 mm (3.5 in.)
Weight:	1.0 kg (2.2 lbs.)

CONTROL AND PROGRAMMING

Playback triggering options:	Auto, manual and music trig with built-in microphone
Capacity, LightJockey scenes:	From 247 (512 channels) to 42 325 (1 channel)
Capacity 3032 Controller scenes:	8024
Sublists of sequences:	Up to 10
Instant blackout button	

CONTROL/USER INTERFACE

Two-digit LED display
Menu up/down plus direct access function keys

CONSTRUCTION

Housing:	Steel and aluminium
Finish:	Electrostatic powder-coated

INSTALLATION

19-inch rack mount (2U)

CONNECTIONS

AC power input:	1.5 m (4.9 ft.) cable tail w/o power plug
Data input:	RS-232 via DB9 connector
Data output:	RS-485 via 3-pin XLR, polarity-reversing adapter required to convert to compliant DMX

ELECTRICAL

AC power: US model 100-120 V nominal, 50/60 Hz, EU model 208-240 V nominal, 50/60 Hz

TYPICAL POWER AND CURRENT

120 V, 60 Hz:	3 W, 0.1 A
230 V, 50 Hz:	3 W, 0.1 A

APPROVALS

EU safety:	EN 60950
EU EMC:	EN 55103-1, EN 55103-2

INCLUDED ITEMS

CD with preprogrammed shows:	P/N 98163009
DMX termination plug, 3-pin XLR:	P/N 91613017
Polarity-reversing 3-pin XLR adapter (converts Martin protocol to DMX):	P/N 11820006
5 m data cable, 3-pin XLR:	P/N 11820008

ORDERING INFORMATION

2510 Controller, 512 DMX, 100-130 V:	P/N 90716100
2510 Controller, 512 DMX, 220-240 V:	P/N 90716000

Colorfox™

Colorfox is the first lighting controller specifically designed for architectural use with dynamic color changing fixtures. This incredibly simple control solution allows users to customize and personalize a variety of architectural lighting settings.

Features

- Attractive, tactile design with glossy finish and rounded edges
- Touch-sensitive dial with acoustic and visual feedback
- 4 memory buttons to run/store/adjust your favorite looks and dynamic scenes
- Select any color fast and easily by scrolling the color wheel
- Easy mood-setting control: dial the hue, saturation or intensity of your lighting
- Matches different luminaire types (RGB or CMY) to create identical and consistent colors
- Connects directly to DMX via RJ45 and controls up to 170 fixtures or zones (maximum 512 channels)
- Connects to any PC via USB for easy setup and uploading of new scenes using PixMove software

Specifications

PHYSICAL

Length:	98 mm (3.9 in.)
Width:	110 mm (4.3 in.)
Height:	28 mm (1.1 in.)
Weight:	290 g (10.2 oz.)

CONTROL/USER INTERFACE

Touch-sensitive dial pad
Intensity select button
Color select button
Saturation select button
Playback sequence 1 - 4 select button
On/off button

PROGRAMMING

Stores up to 4 static/dynamic shows in memory
Edit show programs directly on Windows PC with Pixmove software
Drag-and-drop video and images directly onto preset buttons
RDM automatic fast search and fixture addressing
Advanced matrix addressing for LED panels zig-zag, etc.

PLAYBACK

Controls up to 170 luminaires via maximum 512 DMX channels
On-the-fly adjustment of color, saturation and intensity
Master/slave mode (2 units max.)
Minimum System Requirements
PC with Windows XP 32-bit or Vista 32-bit for Pixmove configuration software
Pentium 4 with standard configuration
USB 1.1 (or higher) port

CONSTRUCTION

Housing:	Aluminum
Finish:	Clear anodized
Front display/control surface:	Transparent acrylic, all controls touch-sensitive

INSTALLATION

Hand-held, wall mount with supplied wall bracket

CONNECTIONS

Control interface unit

Communication with PC:	USB
DMX out and POE in:	RJ-45

External power supply unit

DMX in/thru, POE out:	2 x RJ45
AC power input:	1.5 m (4.9 ft.) UL-approved power cable

Remote control device
Contact closure, RS-232 or DMX

ELECTRICAL

AC power:	Auto-ranging 100 - 240 VAC nominal, 50/60 Hz
Typical current:	0.4 A
Output voltage:	48 V DC via POE (Power Over Ethernet)

APPROVALS

EU safety:	EN 60950
EU EMC:	EN 55103-1, EN 55103-2, EN 61000-3-2, EN 61000-3-3
External power supply unit:	CE, UL (C + US), FCC, GS, CCC

INCLUDED ITEMS

Control interface unit
IEEE 802.3af (POE) compliant external PSU
Pixmove software CD
UTP network & POE power supply cable
USB cable
User documentation

ORDERING INFORMATION

Colorfox VX01:	P/N 90734500

MUM™ / DABS 1™

MUM Application

MUM (Multi Utility Manager) is a handy software configurator and programming tool for intelligent lighting products, such as the Exterior range and the FiberSource CMY150. It automatically recognizes supported fixtures.

Features

- Windows-based configurator with graphical interface for stand-alone programming
- Two-way point-to-point communication
- Read and change address, real-time clock, light level, stand alone settings and more
- Easy-to-understand failure messages
- Recognizes connected fixture automatically - no need for set up
- Backup library of stand-alone programs on PC
- Includes DABS 1 interface

Specifications

CONTROL AND PROGRAMMING

Supports wide range of Martin luminaires
Automatic luminaire recognition
Two-way communication with luminaire
Stores and uploads luminaire settings
Downloads luminaire information and diagnostic messages
Stand-alone show programming
Synchronized (master/slave) operation setup
DMX address setting
Intuitive graphic user interface
Free MUM software updates available from Martin website
Included DABS 1 interface can also be used for complete luminaire software uploads

MINIMUM SYSTEM REQUIREMENTS

32/64 bit and XP SP3 32 bit
64 MB RAM (128 MB recommended)
30 MB available hard disk space
CD-ROM drive
USB 1.1 (or higher) port for DABS 1 hardware interface
Laptop required for mobility at installation site

DABS 1 interface

The DABS 1 interface is a handy tool for uploading fixture software from a PC base using MUM software.

Features

- Upload fixture software directly from your computer
- Compatible with Windows-based PCs and laptops (Windows 2000 and XP)
- Small and lightweight 'go anywhere' solution
- 3 pin XLR connection to serial link

Specifications

PHYSICAL

Length:	100 mm (3.9 in.)
Width:	40 mm (1.6 in.)
Height:	40 mm (1.6 in.)
Weight:	300 g (10.6 oz.)

CONSTRUCTION

Housing:	Steel
Color(s):	Gray
Finish:	Electrostatic powder-coated

CONNECTIONS

PC running MUM or Martin Software Uploader applications:	USB
Data in/out:	3-pin locking XLR

INCLUDED ITEMS

Installation CD:	P/N 39200006
DABS 1 USB PC/fixture hardware interface:	P/N 55758090
DMX termination plug, male XLR:	P/N 91613017
USB cable (A/B), 1000 mm:	P/N 11840066
XLR 3-pin male to RJ-45 adapter:	P/N 11840087

ORDERING INFORMATION

MUM - Multi Utility Manager incl. DABS 1 PC/Fixture Interface Device:	P/N 90758090

	Maxedia Broadcast™ Rackmount only	**Maxedia PRO™** Rackmount only	**Maxedia Compact™** Rackmount only
Part number	P/N 90732590	P/N 90732580	P/N 90732570
Outputs	1x Cue + 1x Interface or 2x Cue	1x Cue + 1x Interface or 2x Cue	1x Cue + 1x Interface or 2x Cue
DMX IN	Optional P/N 90732610	Optional P/N 90732610	✓
ArtNet IN	✓	✓	×
DMX Out	✓	✓	✓
ArtNet Out	64 Universes	64 Universes	64 Universes
A/B Layers	20	20	20
Top Layers	4 per engine	4 per engine	4 per engine
Video Playback	Up to 8+ X 1080p 16 X 720p 40 X 480p	Up to 2+ X 1080p 8 X 720p 20 X 480p	Up to 4+ X 720p 20 X 720p 40 X 480p
Network Synch. Content	✓	✓	✓
Network Synch. Cue	✓	✓	✓
Flightcase	Optional P/N 91535060	Optional P/N 91535060	Optional P/N 91535060
In/Out Breakout Box	Optional P/N 90732610	Optional P/N 90732610	Optional P/N 90732610
Maxedia Keyboard Drawer+keyboard	Optional P/N 91613050	Optional P/N 91613050	Optional P/N 91613050
Monitor	Not included, Elo Touch Monitor recommended for GUI	Not included, Elo Touch Monitor recommended for GUI	Not included, Elo Touch Monitor recommended for GUI
Mouse	×	×	×
Graphical User Interface	✓	✓	✓
Hard Disks	4	2	2
SATA Tray	3 (Raid + Backup)	1	1
Pixel Mapping	✓	✓	✓
Effects	Full Package	Full Package	Full Package
Media Content DVD	✓	✓	✓
Show Compatibility	Compatible	Compatible	Compatible
CITP Thumbnail Exchange	✓	✓	✓
Video-In Capture Card	Analog	Analog	Analog

Maxedia Broadcast™

Utilizing an intuitive touchscreen-optimized user interface, Maxedia is the most user-friendly tool for media composing and playback in all types of applications. Access a vast library of media clips, still images and integrated animations without the need for a complex lighting controller. Maxedia Broadcast is optimized for high definition playback with ultra-fast multiple-core processors, multiple 1080p playback support and two dedicated engine outputs. Maxedia4 software is highly optimized to support H.264/MPEG-4AVC, MOV and AVI HD codecs for superior performance and video quality.

Features

- Intuitive user interface
- State-of-the-art video engine
- Support for H.264/MPEG-4 AVC, MOV and AVI HD professional codecs
- Pixel accurate video output
- Video playback resolution up to Full HD 1080p (Up to 8 Full HD 1080p at the same time)
- Multi-screen keystoning and edge blending
- 20 x 3D engine layers
- 4 top layers per engine
- Dozens of effect plug-ins
- Pixel mapping for RGB and CMY fixtures / DMX In/out (ArtNet and DMX 512)
- Composite capture video card included
- Support for Live HD-SDI capture video input (optional)
- Video output configurations (GUI + Out 1 + Out 2)
- Video playback synch between layers and across Maxedia servers

Specifications

PHYSICAL

Length:	530 mm (20.9 in.)
Width:	480 mm (18.9 in.)
Height:	180 mm (7.1 in.)
Weight:	25.4 kg (56.0 lbs.)

CONTROL/USER INTERFACE

M-Series/Maxedia family user interface
16 x customizable screen workspace/configurations
Touch-screen compatible user interface
Keymapping (cues and transitions assignable to keyboard keys for instant triggering)
Fixture patches identical with M-Series, can be imported from M-Series
DMX Viewer for DMX IN value reports
20 x 3D engine layers (19 user layers +1 default layer)
Static and dynamic effect presets (e.g. blending, moves)
Range of 2D and 3D plug-ins, various media
Shader and shader media
Video cue recording with 256 pages of 256 cues per show
Transitions and wipes
Output parameter adjustments, keystoning and framing
Masking
User-friendly multi-screen blending tool
Intuitive pixel mapping tool

PLAYBACK

Video playback resolution:	480i, 480p, 576i, 576p, 720p, 1080i, 1080p
Video output resolution:	From 1024 x 768 to 3840 x 1024*
Video output configuration:	GUI + out 1 + out 2
Number of media layers:	20 each in A/B mixers (19 custom and 1 default layer)
Number of 'top layers' (overlay):	Four per engine
Network synchronization content:	Yes
Network synchronization playback:	Yes
Pixel mapping (image pixel to fixture):	CMY and RGB
Test pattern generator:	Integrated

Master/slave networking with cue/media/timecode synchronisation
Media files in SD and HD resolution
(engine optimized for H.264/MPEG-4 AVC codec, WMV: format supported))

HARDWARE

Motherboard:	High-end Intel
Processor:	Multi-core Intel
RAM:	4 GB high-speed
OS hard drive:	1 x high-capacity
Media hard drive:	3 x high-capacity RAID 0 plus backup
Graphics card:	Dual ATI Radeon
Capture card:	1 x Composite capture card
Network card:	1 x Intel Dual Gbit LAN Ethernet card

SOFTWARE

Embedded OS, Win XPe user interface
Supported media: MPEG-4, H.264, AVI with DV codec in SD quality, WMV, JPEG, BMP
Engine optimized for H.264/MPEG-4 AVC, MOV and AVI HD
Pixel mapping software for direct DMX out fixture control
Worldwide fixture library
Media Manager for media import and export
MaxNet network system for networking multiple media server and M-Series control systems
Matrox DualHead2Go- and TripleHead2Go-ready
(max. two devices per Maxedia Broadcast system)
HD capture card-ready. HD-SDI or HD-DVI 1080p, single or dual inputs,
1-2 frames maximum: latency (optional)

Maxedia Broadcast™

Specifications

CONNECTIONS	
Rackmount version:	
Computer I/O:	8 x USB, 1 x IEEE 1394 Firewire, 2 x eSATA
DMX in:	Via ArtNet, optional Martin Universal USB/DMX Interface or Martin USB Duo DMX Interface device
Remote network, ArtNet in, ArtNet out:	3 x RJ45
User display interface (VGA, 1024x768 minimum):	DVI/VGA
Playback output:	2 x DVI/VGA
Digital audio:	Optical digital out
Analog audio in:	3.5mm stereo mini-jack
Analog audio out:	3.5mm stereo mini-jack
Mouse:	USB
Keyboard:	USB
ELECTRICAL	
AC power:	100-240 V nominal, 50/60 Hz
APPROVALS	
UL approved	
EU safety:	EN 60950
EU EMC:	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
INCLUDED ITEMS	
Maxedia Media Server	
Maxedia Quick Start Guide	
Standard Media Library (images and videos) on 5 DVDs	
Maxedia OS DVD	
1.5 m (4.9 ft.) power cable, 3-pin IEC	
ORDERING INFORMATION	
Maxedia Broadcast System RM (rackmount only):	P/N 90732590
MaxModule Button:	P/N 90732160

Maxedia PRO™

Utilizing an intuitive touchscreen-optimized user interface, Maxedia is the most user-friendly tool for media composing and playback in all types of applications. Access a vast library of media clips, still images and integrated animations without the need for a complex lighting controller. Based on a dual-core processing system, Maxedia PRO is a solid performer with support for High Definition content playback up to two 1080p. Two outputs are available and each can be configured as a user interface or playback engine. The engine output can be split over three projectors for seamless widescreen images. Maxedia PRO supports a full pixelmapping engine for CMY and RGB systems.

Features

- Intuitive user interface
- DMX-in via Ethernet (ArtNet) or IO-Box or Universal USB2DMX
- 20 x 3D engine layer
- 1 top layer
- Effect plug-ins
- Pixelmapping / DMX out (ArtNet and DMX 512)
- Video speed control
- Two video output configurations (Out 1 + GUI or Out 1 + Out 2)

Specifications

PHYSICAL	
Length:	530 mm (20.9 in.)
Width:	480 mm (18.9 in.)
Height:	180 mm (7.1 in.)
Weight:	25.4 kg (56.0 lbs.)

Maxedia PRO™

Specifications

CONTROL/USER INTERFACE

M-Series/Maxedia family user interface
16 x customizable screen workspace/configurations
Touch-screen compatible user interface
Keymapping (cues and transitions assignable to keyboard keys for instant triggering)
Fixture patches identical with M-Series, can be imported from M-Series
DMX Viewer for DMX IN value reports
20 x 3D engine layers (19 user layers + 1 default layer)
Static and dynamic effect presets (e.g. blending, moves, effects)
Range of 2D and 3D plug-ins, various media
Shader and shader media
Video cue recording with 256 pages of 256 cues per show
Transitions and wipes
Output parameter adjustments, keystoning and framing
Masking
User-friendly multi-screen blending tool
Intuitive pixel mapping tool

PLAYBACK

Video playback resolution:	480i, 480p, 576i, 576p, 720p, 1080i, 1080p
Video output resolution:	From 1024 x 768 to 3840 x 1024*
Video output configurations:	Two (out 1 + GUI or out 1 + out 2)
Number of media layers:	20 each in A/B mixers (19 custom and 1 default layer)
Number of 'top layers' (overlay):	Four per engine
Network synchronisation content:	Yes
Network synchronisation playback:	Yes
Pixel mapping (image pixel to fixture):	CMY and RGB

Integrated test pattern generator
Master/slave networking with cue/media/timecode synchronisation
Media files in SD and HD resolution
(engine optimized for H.264/MPEG-4 AVC codec, WMV format supported)

HARDWARE

Motherboard:	Intel high-end motherboard
Processor:	Multi-core Intel
RAM:	4 GB high-speed
OS hard drive:	1 x high-capacity
Media hard drive:	1 x high-capacity
Graphics card:	ATI Radeon
Capture card:	1 x Composite/S-Video
Network card:	1 x Intel Dual Gbit LAN Ethernet card

SOFTWARE

Embedded OS, Win XPe user interface

Supported media:	MPEG-4, H.264, AVI with DV codec in SD quality, WMV, JPEG, BMP Engine optimized for H.264/MPEG-4 AVC, MOV and AVI HD
Video SD format 480i, 480p, 576i, 576p:	DV-AVI (Windows or Panasonic codec), H264 (MOV or AVI) (only from v.4)
Video HD format 720P, 1080P:	WMV-HD or BlackMagic 8-bit JPEG codec (until v.3) H264 (MOV or AVI) (from v.4)
Still format:	JPEG, BMP

Pixel mapping software for direct DMX out fixture control
Worldwide fixture library
Media Manager for media import and export
MaxNet network system for networking multiple media server and M-Series control systems
Matrox DualHead2Go- and TripleHead2Go-ready (one per Maxedia Pro system)
HD capture card-ready, HD-SDI or HD-DVI 1080p, single or dual inputs,
1-2 frames maximums latency (optinal)

CONNECTIONS

Rackmount version:

Computer I/O:	8 x USB, 1 x IEEE 1394 Firewire, 2 x eSATA
DMX in:	Via ArtNet, optional Martin Universal USB/DMX Interface or Martin USB Duo DMX Interface device
Remote network, ArtNet in, ArtNet out:	3 x RJ45
User display interface (VGA, 1024x768 minimum):	DVI/VGA
Playback output:	DVI/VGA
Digital audio:	Optical digital out
Analog audio in:	3.5mm stereo mini-jack
Analog audio out:	3.5mm stereo mini-jack
Mouse:	USB
Keyboard:	USB

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz

APPROVALS

UL approved	
EU safety:	EN 60950
EU EMC:	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3

INCLUDED ITEMS

Included with rackmount version:

Maxedia Media Server
Maxedia Quick Start Guide
Standard Media Library (images and videos) on 5 DVDs
Maxedia OS DVD
Maxedia lock keys
1.5 m (4.9 ft.) power cable, 3-pin IEC

ACCESSORIES

MCC (Maxedia Capture Card) Dual HD-SDI input card for Maxedia:	P/N 90732640
MCC (Maxedia Capture Card) Dual DVI/VGA input card for Maxedia:	P/N 90732630
Maxedia PCI Dual LAN card:	P/N 90732650

ORDERING INFORMATION

Maxedia Pro System RM (rackmount only):	P/N 90732580
MaxModule Button:	P/N 90732160

Maxedia Compact™

Utilizing an intuitive touchscreen-optimized user interface, Maxedia is the most user-friendly tool for media composing and playback in all types of applications. Access a vast library of media clips, still images and integrated animations without the need for a complex lighting controller.

Maxedia Compact Rackmount™ is a budget-minded solution with slightly reduced features. Up to twenty layers of SD and HD video media can be placed into a cue and it contains the same amount of content as Maxedia PRO for immediate results. Pixel mapping is possible with Maxedia Compact RM". This is an ideal package for installations, productions and rental companies as it is mounted in a small 2U rack housing.

Features

- Intuitive user interface
- State-of-the-art video engine
- Support for H.264/MPEG-4 AVC, MOV and AVI HD professional codecs
- Pixel accurate video output
- Multi-screen keystoning and edge blending
- 20 x 3D engine layers
- 4 top layers
- Dozens of effect plug-ins
- Pixel mapping for RGB and CMY fixtures / DMX out (ArtNet and DMX 512)
- Composite capture video card included
- Two video output configurations (Out 1 + GUI or Out 1 + Out 2)
- Video playback synch between layers and across Maxedia servers

Specifications

PHYSICAL

Length:	540 mm (21.3 in.)
Width:	482 mm (19.0 in.)
Height:	88 mm (3.5 in.)
Weight:	13.2 kg (29.1 lbs.)

CONTROL/USER INTERFACE

M-Series/Maxedia family user interface
16 x customizable screen workspace/configurations
Touch-screen compatible user interface
Keymapping (cues and transitions assignable to keyboard keys for instant triggering)
Fixture patches identical with M-Series, can be imported from M-Series
DMX Viewer for DMX IN value reports
20 x 3D engine layers (19 user layers + 1 default layer)
Static and dynamic effect presets (e.g. blending, moves, effects)
Range of 2D and 3D plug-ins, various media
Shader and shader media
Video cue recording with 256 pages of 256 cues per show
Transitions and wipes
Output parameter adjustments, keystoning and framing
Masking
User-friendly multi-screen blending tool
Intuitive pixel mapping tool

PLAYBACK

Video output resolution:	480i, 480p, 576i, 576p, 720p
Video output resolution:	From 1024 x 768 to 3840 x 1024*
Two video output configurations (out 1 + GUI or out 1 + out 2)	
Number of media layers:	19 + 1 default in each A/B mixer
Number of 'top layers' (overlay):	4
Network synchronisation content:	Yes
Network synchronisation playback:	Yes
Pixel mapping (image pixel to fixture):	CMY and RGB
Integrated test pattern generator	
Master/slave networking with cue/media/timecode synchronisation	
Media files in SD and HD resolution:	(engine optimized for H.264/MPEG-4 AVC codec, WMV: format supported)

HARDWARE

Motherboard:	High-end Intel
Processor:	Multi-core Intel
RAM:	2 GB high-speed
OS hard drive:	1 x high-capacity
Media hard drive:	1 x high-capacity
Graphics card:	ATI Radeon
Capture card:	1 x Composite/S-Video
Network card:	Onboard 2 x 1 GB LAN

SOFTWARE

Embedded OS, Win XPe user interface	
Supported media:	MPEG-4, H.264, AVI with DV codec in SD quality, WMV, JPEG, BMP
Engine optimized for:	H.264/MPEG-4 AVC, MOV and AVI HD
Pixel mapping software for direct DMX out fixture control	
Worldwide fixture library	
Media Manager for media import and export	
MaxNet network system for networking multiple media server and M-Series control systems	
Matrox DualHead2Go- and TripleHead2Go-ready (one per Maxedia Compact RM system)	

CONNECTIONS

Computer I/O:	6 x USB
DMX out:	2 x 5-pin female locking XLR
Storage media/hardware/network/video:	6 x USB
Remote network, Ether2DMX out:	2 x RJ45
User display interface (VGA, 1024x768 minimum):	DVI/VGA
Digital audio:	SPDIF coax
Analogue audio in:	3.5mm stereo mini-jack
Analogue audio out:	3.5mm stereo mini-jack
Keyboard:	PS2
Mouse:	PS2

Maxedia Compact™

Specifications

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz

APPROVALS

UL approved	
EU safety:	EN 60950
EU EMC:	EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3

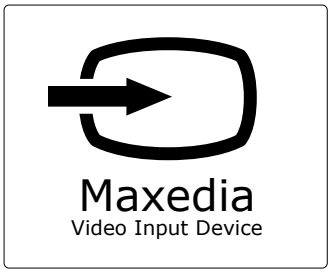
INCLUDED ITEMS

Maxedia Compact RM Media Server
Maxedia Quick Start Guide
Standard Media Library (images and videos) on 5 DVDs
Maxedia OS DVD1.5 m (4.9 ft.) power cable, 3-pin IEC

ORDERING INFORMATION

Maxedia Compact Rackmount System:	P/N 90732570
Maxedia I/O Breakout Box 19":	P/N 90732610
Centronic cable for Maxedia I/O Breakout Box:	P/N 91613040
Maxedia Flightcase:	P/N 91535060
Maxedia Keyboard Drawer with Keyboard:	P/N 91613050
MaxModule Button:	P/N 90732160

Maxedia Capture Card™



The MCC series (Maxedia Capture Card) are low latency capture cards used in the Maxedia PRO and Maxedia Broadcast, offering high definition in the highest quality and speed available today.

MCC Dual HD-SDI input card for Maxedia

- Low latency capture card for the Maxedia PRO and Broadcast range from Rev C and up
- SD-SDI & HD-SDI compatible (SMPTE 259M-C and SMPTE 292)
- 480i, 576i, 720P and 1080i compatible
- 25fps, 29,97fps, 30fps, 50fps, 59,94fps and 60fps
- Every input can have a different resolution and frame rate while capturing
- Auto detect of the input resolution at startup of the Maxedia software
- Uncompressed 8-bit digital video capture 4:2:2
- Cable equalization on both inputs for 270 Mbit/s - 1.485 Gbit/s signals on BNC coaxial cable

MCC Dual DVI/VGA input card for Maxedia

- Low latency capture card for the Maxedia PRO and Broadcast range from Rev C and up
- DVI-D (digital)/DVI-A (analog RGBHV) 640 x 480, up to 1920x1080 pixels
- HDMI 480i/p, 576i/p, 720P & 1080i
- Built-in EDID per input switchable between Analog and Digital (Maxedia software 4.x required)
- Every input can have a different resolution and frame rate while capturing
- Adaptive equalizer for cable lengths up to 30 meters (by using quality cable)
- DVI 1.0 and HDMI 1.3 single link compliant. No HDCP digital content protection support
- VGA-to-DVI & HDMI-to-DVI connections possible through standard adapters (not provided)

Martin ShowDesigner™

Martin ShowDesigner (MSD) is a unique and user-friendly-lighting and set design software package, brilliant for developing realistic 3-D lighting simulations. Invaluable as a high quality production or sales presentation tool, MSD allows you to create realistic set and lighting design renderings using reflection, transparency, lighting, shadow and smoke. Acquire and upgrade ShowDesigner packages online at www.martinshowdesigner.com

Features

- 3D Graphic engine delivers stunning real-time quality rendering
- Fixture beams show true-life light distribution
- Import of 2D and 3D AutoCAD DXF files
- Fixture library covers most manufacturers and fixtures
- Photometric calculations
- Ray-tracing including shadows, reflections, transparency, smoke
- Net-Render server/client tool
- Camera animation using intuitive time-line control
- Real time video input
- Connects to any DMX controller for offline programming

Specifications

CONTROL AND PROGRAMMING

Control of all fixture parameters
Programming and storage of cues
Cues contain basic timing and link information
User-customizable fixture libraries (complete range of Martin and other fixture definitions included)
User-customizable object libraries
Free fixture and objects library updates
Fixtures automatically patched to free DMX address
Paperwork utility prints plot and equipment list
Solid rendering of scenes
Texture editor
Features below available in GOLD version only
Real-time solid beam 3D Visualizer, uses DMX or video input to give visualization of following effects
Live video input for screen, static and moving video projector simulation
Pan/tilt of beams, indexed and rotating gobos, iris effects, color wheels, CMY color mixing, shutter/dimmer/strobe, zoom, color scrolling, framing system
Gobo editor
Cuelist for direct playback
DMX viewer monitors inbound and outbound data
Photo-realistic rendering
IES to MSD fixture profile converter
Light metre tool calculates light level on surface

PLAYBACK

Show preview using simple playback
Offline program for real-time monitoring of 3D light setup

MINIMUM SYSTEM REQUIREMENTS

Windows XP/Vista (32-bit OS)
Pentium 4 CPU
1 GB RAM
400 MB available hard disc space
SVGA card, high (32-bit) color, 1024x768 resolution
CD-ROM drive
USB 1.1 (or higher) port for dongle
USB 1.1 (or higher) port if Martin Universal USB/DMX Interface or Martin USB Duo DMX Interface is used
Network card required for communication with other controller or Ethernet box via LAN (Artnet, Maxxyz, M-Series, Compulite, Avolite, Hog, MA)
Full administrator rights on PC

RECOMMENDED

Windows XP/Vista/7 (32-bit or 64-bits)
Dual Core or Quad Core processor
2+ GB RAM
500 MB available hard disc space
SVGA card, true (24-bit) color, minimum 1024x768 resolution, hardware accelerated, 512 MB VRAM, DirectX support (ATI and NVIDIA are recommended)
CD-ROM drive
USB 1.1 (or higher) port for dongle
USB 1.1 (or higher) port if Martin Universal USB/DMX Interface or Martin USB Duo DMX Interface is used
Network card required for communication with other controller or Ethernet box via LAN (Artnet, Maxxyz, M-Series, Compulite, Avolite, Hog, MA)
Full administrator rights on PC

CONNECTIONS

Connects to any controller that has DMX output (Martin Universal USB/DMX Interface or Martin USB Duo DMX Interface required) or Artnet output
Connects to other controller or Ethernet box via LAN (Maxxyz via Artnet, Compulite, Avolite)
Connects to various applications using internal driver (Martin LightJockey, Martin Proscenium, HogPC, Sandnet, Horizon...)
Fast Net Render (GOLD only) allows networked rendering across multiple Windows-based PCs

ENVIRONMENT

Artnet-compatible DMX distribution
Supports Martin Universal USB/DMX Interface and Martin USB Duo DMX Interface
Compatible with Maxxyz, M-Series and M-PC
DXF, Sketchup, XFile 2D and 3D file import

INCLUDED ITEMS

Martin ShowDesigner software package CD
Martin ShowDesigner USB dongle
Installation instructions
Quick Start guide

ORDERING INFORMATION

Order from Martin:

MSD 5 Gold:	P/N 90756057
MSD 5 Live:	P/N 90756058
MSD 5 Live 4:	P/N 90756059

Or order online from www.martinshowdesigner.co

	MSD5 Gold™	MSD5 Live™	MSD5 Live 4™	MSD5 Live LJ™	MSD5 MC Edition™ activated	MSD5 MC Edition™ Demo
ShowDesigner	Yes	Yes	Yes	No	Yes	No
Modeler	Yes	Yes	Yes	Yes	Yes	No
3D Visualizer	Yes	Yes	Yes	Yes	Yes	Yes
Paper	Yes	No	No	No	No	No
DMX Monitor	Yes	Yes	Yes	No	No	No
Fast NetRender	Yes	No	No	No	No	No
Fixture Library	Yes	Yes	Yes	Yes	Yes	Yes
Object Library	Yes	Yes	Yes	Yes	Yes	Yes
Real-time 3D Rendering	Yes	Yes	Yes	Yes	Yes	Yes
DMX Connectivity	Several Drivers	Several Drivers	Several Drivers	LightJockey	LightJockey Maxxyz	LightJockey Maxxyz
Supported DMX Universes	64	64	4	4	64	2
Dynamic Scenery	Yes	Yes	Yes	No	No	No
Video Input	Yes	Yes	Yes	No	No	No
Lighting Cues	Yes	Yes	Yes	No	No	No
Monitoring DMX Levels	Yes	Yes	Yes	No	No	No
DXF Import	Yes	Yes	Yes	Yes	Yes	No
PC VectorWorks import	Yes	No	No	No	No	No
DMX Record & Playback	Yes	Yes	Yes	No	No	No
Video Creation	Yes	Yes	Yes	No	No	No
Fixed text on Screen	No	No	No	No	No	Yes
Subscription reminder	No	No	No	No	No	Every 30 min
Save Changes	Yes	Yes	Yes	Yes	Yes	No
Usage Period	Unlimited	Unlimited	Unlimited	Unlimited	1 year (45 days trial)	Unlimited
P/N	90756057	90756058	90756059	(Online purchase only www.martinshowdesigner.com)	N/A	N/A

Ether2DMX8™

Ether2DMX8 is a highly capable DMX router and much more! As a DMX router, it translates Artnet protocol into DMX in/out universes but can also be used as a DMX merger, DMX splitter hub, fail safe device, cue playback, and DMX viewer monitor. As an extension for the M1 console it provides 8 additional DMX ports and includes the required DMX license. When connected to a standalone PC, the Ether2DMX8 also becomes the license key for M-PC and provides 8 DMX Universes.

Features

- Artnet to DMX conversion
- DMX to Artnet conversion
- 10 Factory Presets
- 10 User Presets
- 99 Cues with Fade Time, Hold Time and Cue Linking
- 8 Switch Inputs
- 8 XLR female 5pins
- DMX Monitor
- DMX and Artnet Test Generator
- Multiple Artnet IP in for backup system
- USB port for backup and firmware updates
- M1 Extension with 8x DMX512
- M-PC License with 8x DMX512

Specifications

PHYSICAL

Length:	288 mm (11.3 in.)
Width:	482.2 mm (19.0 in.), 19-inch rackmount
Height:	43.6 mm (1.7 in.),1U
Weight:	3.6 kg (7.9 lbs.)

CONTROL/USER INTERFACE

Front panel display with 4-button control menu
1 x dual-color LED per port
Mouse & keyboard input
Remote web access
DMX viewer for any physical incoming or outgoing DMX port

HARDWARE

520 MHz processor for fast, synchronized DMX output, latency virtually zero
Ethernet:
Artnet-compliant, Artnet II-compliant
ACN-ready
Built-in webpage for quick access and remote setup
10/100 Mbit connection
8 ports:
Configurable as input or output
Opto-isolated circuit for each port
User-definable DMX timings for each port
Each port set as output can be set to constantly repeat the last received DMX frame, or only to output new frames
RDM-ready
Dual-color LED for each port
8 open-contact inputs:
Inputs transmit ArtNet-compatible contact closures on the network
Contact closures can trigger factory and user presets and start cue playback

SOFTWARE

10 user presets for device configuration
M-Series/Maxedia use preset with auto-IP address setting
Presets for DMX Hub and Spitter functionality
Mergeable setup where multiple inputs are routed in LTP, HTP to one output
Ports assignable to input or output
Ports routable to/from internal ports or to/from any DMX universe on Artnet
Port routing triggerable by contact closure through the use of user presets
Ports' DMX channel ranges configurable
Merger modules routable between inputs & outputs and/or Artnet universes
Channel ranges can be put in LTP/HTP, copy or fixed value from other channels
Auto or manual IP addressing
Tracking backup function:
automatic handover to another Artnet signal if one Artnet signal fails
DMX and Artnet test pattern generator
Artnet broadcast and unicast compatible
Configuration files loadable/storable on USB memory sticks
Firmware upload via USB memory stick

CONSTRUCTION

Housing:	Steel and aluminum
Finish:	Electrostatic powder-coated

Installation
19-inch rackmount (1U)

CONNECTIONS

10/100 base-T ethernet port:	Neutrik locking RJ45 Ethercon socket
DMX in/out ports:	8 x 5-pin female XLR
Keyboard:	USB or PS2
Mouse:	USB or PS2
Backup, software upload:	USB
Monitor:	VGA 15-pin
AC power input:	3-pin IEC male socket
AC power throughput:	3-pin IEC female socket

ELECTRICAL

AC power:	Auto-ranging 100 ~ 240 VAC nominal, 50/60 Hz
Main fuse:	2 x 500 mA T (slow-blow)

ORDERING INFORMATION

Ether2DMX8:	P/N 90758130

Martin USB Duo DMX Interface™

The Martin USB Duo DMX Interface features XLR 5P female connectors and provides two DMX 512 universes from any USB enabled Windows-based PC. It communicates with Martin LightJockey, the Maxxyz and M1 controller series, the Maxedia media server series, and Martin ShowDesigner 5 (MSD5), as well as Martin fixture software uploaders (not compatible with MUM software).

Features

- Plug and play solution: comes complete with XLR adapters, USB cable and installation notes
- 2 DMX universes - configurable for in/out
- Convenient, space-saving stackable design
- Easily mounts to surfaces and walls
- DMX 512-A (RDM compatible)
- Upload of fixture software files (MU3)
- Activates 2 DMX Universes in M-PC Demo Mode

Specifications

PHYSICAL

Length:	103 mm (4.1 in.)
Width:	73 mm (2.9 in.)
Height:	42 mm (1.7 in.)
Weight:	116 g (4.1 oz.)

CONTROL/USER INTERFACE

Configuration and management:	Application (e.g. LightJockey, M-PC, Maxedia, Maxxyz, M1)
Device status:	3 x red/orange/green LEDs

CONNECTIONS

DMX data:	2 x 5-pin locking XLR, both configurable for DMX in/out
PC/controller:	USB

ELECTRICAL

USB-powered

INCLUDED ITEMS

3 m (9.8 ft.) USB cable
CD with drivers and installation/user documentation

ORDERING INFORMATION

Martin USB Duo DMX Interface:	P/N 90703010

Martin DMX 5.3 Splitter™

The Martin DMX 5.3 Splitter is the most economical protection for DMX controllers and devices. The main purpose of the Martin 5.3 Splitter is to maintain proper data over long or several runs of DMX signal. The Splitter boosts the weak DMX signal to its original output level before it becomes too low to be read from DMX devices. Disruption of DMX is often caused by bad cables or bad connections. The Martin DMX 5.3 Splitter will help to rectify the signal.

Features

- DMX Splitter / Booster
- Opto-isolated DMX Output ports
- DMX loop through port with built-in termination
- 3-pin XLR Input and Outputs
- Optimized for Martin fixture firmware upload
- Universal power supply
- Rack, truss and wall mountable
- Lightweight yet robust construction

Specifications

PHYSICAL

Depth:	125 mm (4.9 in.)
Width:	220 mm (8.7 in.)
Height:	45 mm (1.8 in.)
Weight:	0.9 kg (2.0 lbs.)

DATA SIGNAL

DMX:	ANSI E1.11 (USITT DMX 512-A)
Electrical standard:	EIA-485
Recommended cable type:	STP (Shielded Twisted Pair)
Recommended cable gauge:	22 or 24 AWG

CONSTRUCTION

Housing:	Aluminum
Finish:	Electrostatic powder-coated

CONNECTIONS

Data input:	3-pin XLR male
Data throughput (not amplified or branched):	3-pin XLR female
Data outputs (optically isolated and amplified):	5 x 3-pin XLR female
AC power input:	1.2 m (3.9 ft.) cable tail with US-type (NEMA-5-15) power plug

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Power supply unit:	Auto-ranging electronic switch-mode
Typical total power consumption:	4 W

Power consumption figures are typical, not maximum. Allow for +/-10% variation.

THERMAL

Maximum ambient temperature (Ta max.):	55° C (131° F)
Minimum ambient temperature (Ta min.):	-30° C (-22° F)

APPROVALS

EU safety:	EN 60950-1
EU EMC:	EN 55022, EN 55024, EN 55103-1, EN 55103-2
US safety:	UL 508
US EMC:	FCC Part 15 Class A
Canadian safety:	CAN/CSA C22.2 No. 14
Canadian EMC:	ICES-003 Class A
Australia/NZ:	C-TICK N4241

INCLUDED ITEMS

4 x screws to join two devices for rack mounting
2 x L-brackets + 8 x screws for 19-inch rack mounting two Splitters (1U) or surface mounting
1.2 m (3.9 ft.) (3.9 ft.) hard-wired power cable with US-type (NEMA-5-15) plug

ACCESSORIES

Half-coupler clamp:	P/N 91602005
G-clamp:	P/N 91602003
Quick trigger clamp:	P/N 91602007
Safety wire, safe working load 50 kg (110.2 lbs.):	P/N 91604003
3-pin male XLR to 5-pin female XLR adaptor:	P/N 11820004
5-pin male XLR to 3-pin female XLR adaptor:	P/N 11820005
5-pin male XLR to male RJ-45 adapter:	P/N 11840111
5-pin female XLR to male RJ-45 adapter:	P/N 11840112

ORDERING INFORMATION

Martin DMX 5.3 Splitter:	P/N 90758140

Martin RDM 5.5 Splitter™

The Martin RDM 5.5 Splitter is the perfect companion to any controller or DMX/RDM device. The main purpose of the Martin 5.5 Splitter is to maintain proper data over long or several runs of DMX signal. The Splitter boosts the weak DMX signal to its original output level before it becomes too low to be read by DMX devices. Disruption of DMX is often caused by bad cables or bad connections. The Martin RDM 5.5 Splitter will help to rectify the signal.

Features

- DMX Splitter / Booster
- Opto-isolated DMX Output ports
- DMX loop through port with built-in termination
- 5-pin XLR Input and Outputs
- RDM E1.20 compliant
- Optimized for Martin fixture firmware upload
- Universal power supply
- PowerCon connectors in/out for easy daisy-chaining
- Rack, truss and wall mountable
- Lightweight yet robust construction

Specifications

PHYSICAL

Depth:	125 mm (4.9 in.)
Width:	220 mm (8.7 in.)
Height:	45 mm (1.8 in.)
Weight:	0.9 kg (2.0 lbs.)

DATA SIGNAL

DMX:	ANSI E1.11 (USITT DMX 512-A)
RDM:	ANSI E1.20
Electrical standard:	EIA-485
Recommended cable type:	STP (Shielded Twisted Pair)
Recommended cable gauge:	22 or 24 AWG

CONSTRUCTION

Housing:	Aluminum
Finish:	Electrostatic powder-coated

CONNECTIONS

Data input:	5-pin XLR male
Data throughput (not amplified or branched):	5-pin XLR female
Data outputs (optically isolated and amplified):	5 x 5-pin XLR female
AC power input:	Neutrik PowerCon
AC power throughput:	Neutrik PowerCon

ELECTRICAL

AC power:	100-240 V nominal, 50/60 Hz
Power supply unit:	Auto-ranging electronic switch-mode
Typical total power consumption:	4 W

Power consumption figures are typical, not maximum. Allow for +/-10% variation.

THERMAL

Maximum ambient temperature (Ta max.):	55° C (131° F)
Minimum ambient temperature (Ta min.):	-30° C (-22° F)

APPROVALS

EU safety:	EN 60950-1
EU EMC:	EN 55022, EN 55024, EN 55103-1, EN 55103-2
US safety:	UL 508
US EMC:	FCC Part 15 Class A
Canadian safety:	CAN/CSA C22.2 No. 14
Canadian EMC:	ICES-003 Class A
Australia/NZ:	C-TICK N4241

INCLUDED ITEMS

4 x screws to join two devices for rack mounting
2 x L-brackets + 8 x screws for 19-inch rack mounting two Splitters (1U) or surface mounting
Neutrik PowerCon NAC3FCA male input connector

ACCESSORIES

Neutrik PowerCon NAC3FCA power input connector, cable mount, blue:	P/N 05342804
Neutrik PowerCon NAC3FCB power output connector, cable mount, light grey:	P/N 05342805
Half-coupler clamp:	P/N 91602005
G-clamp:	P/N 91602003
Quick trigger clamp:	P/N 91602007
Safety wire, safe working load 50 kg (110.2 lbs.):	P/N 91604003
3-pin male XLR to 5-pin female XLR adaptor:	P/N 11820004
5-pin male XLR to 3-pin female XLR adaptor:	P/N 11820005
5-pin male XLR to male RJ-45 adapter:	P/N 11840111
5-pin female XLR to male RJ-45 adapter:	P/N 11840112

ORDERING INFORMATION

Martin RDM 5.5 Splitter:	P/N 90758150

ATMOSPHERIC EFFECTS

- Jem Glaciator X-Stream
- Jem Roadie X-Stream
- Jem Roadie Compact
- Jem Hydra
- Jem ZR44 Hi-Mass
- Jem K1 Hazer
- Jem Compact Hazer Pro
- Jem AF-1
- Jem AF-2

- Magnum 2500 Hz
- Magnum 2000
- Magnum 1800
- Magnum 1200
- Magnum 850
- Magnum 650
- Magnum Club Smoke

- Fluid Matrix & Machine Application chart
- Fluids

- Accessories

	Jem Glaciator X-Stream™	Jem Roadie Compact™	Jem Hydra™	Jem ZR44 Hi-Mass™	Jem K1 Hazer™	Jem Compact Hazer Pro™
OUTPUT						
Continuous output	Yes	Yes	Yes	Yes	Yes	Yes
Density	Density control: low, medium or high	Output and density level control	Output control	Output control	Output and density level control	Output and density level control
Output	80 m^3/min fog output	2500 m^3/min fog output	700 m^3/min fog output (per head)	1200 m^3/min fog output	5000 m^3/min haze output	3800 m3/min haze output
Speed	–	Integrated high velocity fan		–	Integrated high velocity fan (variable fan speed)	Integrated high velocity fan (variable fan speed)
HEAT EXCHANGE						
Heat Exchange	3500 W heat exchanger	2 x 1500 W heat exchanger	1500 W heat exchanger	1800 W heat exchanger	600 W heat exchanger	900 W heat exchanger
Heat-up time	15 min heat-up time	9 min heat-up time	9 min heat-up time	7.5 min heat-up time	5 min heat-up time	60 sec heat-up time
MOUNTING						
Mounting	Floor Standing Only	For vertical or horizontal effect projection	Can be mounted in any direction	Floor standing or truss mounting	Floor standing or flying kit	Floor standing or flying kit
FLUID						
Capacity	5 liter fluid capacity	9.5 liter fluid capacity	2 x 25 liter fluid capacity	9.5 liter fluid capacity	2.5 liter fluid capacity	2.5 liter fluid capacity
Low-Fluid	Low fluid sensing	Low fluid sensing	Low fluid sensing	Indirect fluid sensing system for unattended operation	Low fluid consumption and longer hang-time for greater economy	Low fluid consumption and long hang-time
Options	Different fluid options for different applications	Different fluid options for different applications	Temperature control for different fluid options and applications	Different fluid options for different applications	–	-
Supply	Internal or external fluid supply	Internal Supply	Automatic tank changeover	Internal supply	Water based - no oil residue on light fixtures	Internal supply sealed for transport
SAFETY						
Service	Self contained unit: no C02 or dry ice	–	Leak detection system –	–	Automated shut-down procedure to prevent clogging	-
MAINTENANCE						
Service	–	–	Optional self-sealed connectors for easy service	RDM Capable	–	-
CONTROL						
Control	Onboard DMX	Onboard DMX, 3 & 5 pin	System is DMX controllable	Onboard DMX, 3 & 5 pin	Onboard DMX, 3 & 5 pin	Onboard DMX, 5 pin
Macros	–	Pre-programmed stand-alone macros	Pre-programmed stand-alone macros	–	Pre-programmed stand-alone macros	-
Onboard control panel	Yes	Yes	Yes	Removable onboard	Yes	Yes
Options	Optional ducting system	–	–	Removable panel for remote analogue remote control	Fast access set-up mode	Optional air director
Remote	Optional hand-held remote control	Optional multifunctional remote control	Optional multifunctional remote control	Optional multifunctional remote control	Optional digital remote control	Optional digital multifunctional remote control

Although not represented in the chart above, the Jem Roadie X-Stream is still a current model.

	Magnum 2000™	Magnum Club Smoke™	Magnum 2500 Hz™	Magnum 1800™	Magnum 1200™	Magnum 850™	Magnum 650™
OUTPUT							
Continuous output	–	Yes	Yes	Yes	Yes	Yes	–
Density	Output control	Output control	Output control	Output control	Output control	Output control	–
Output	700 m^3/min fog output	550 m^3/min fog output	2500 m^3/min haze output	580 m^3/min fog output	290 m^3/min fog output	200 m^3/min fog output	160 m^3/min fog output
Speed	–	–		–	–	–	–
HEAT EXCHANGE							
Heat Exchange	1600 W	1000 W	900 W	1000 W	850 W	750 W	600 W
Heat-up time	8 minutes	7 minutes	6-8 minutes	9 minutes	8 minutes	8 minutes	7 minutes
MOUNTING							
Mounting	Floor standing or truss mounting	Truss mounting	Floor standing	Floor standing/Truss mount with optional flying kit	Floor standing/Truss mount with optional flying kit	Floor standing	Floor standing
Stand	–	–	–	Optional flying kit	Optional flying kit	–	–
FLUID							
Capacity	9.5 liter fluid capacity	10 liter fluid capacity	3.8 liter fluid capacity	3.8 liter fluid capacity	2.3 liter fluid capacity	1 liter fluid capacity	1 liter fluid capacity
Low-Fluid	–	Low fluid sensing	–	–	–	–	–
Options	Different fluid options for different applications	Different fluid options for different applications	-	Different fluid options for different applications	Different fluid options for different applications	Different fluid options for different applications	Different fluid options for different applications
Supply	Internal supply	Internal supply	Internal supply	Internal supply	Internal supply	Internal supply	Internal supply
CONTROL							
Control	Optional DMX	Onboard DMX	Optional DMX	Onboard DMX	Optional DMX	–	–
Onboard control panel	Yes	–	–	–	–	–	–
Options	Removable panel for remote control	–	–	Internal remote control storage	Internal remote control storage	–	–
Remote	Timer and output level remote control	Multifunctional remote control	Timer and output level remote control	Timer and output level remote control	Timer and output level remote control	Timer and output level remote control	Hard-wired single button

Jem Glaciator X-Stream™

The Jem Glaciator X-Stream creates a total ground fog effect from a self-contained unit. It utilizes the simple but effective Jem heavy fog fluids and a closed loop refrigeration system for an easy-to-produce heavy fog solution.

Features

- Density control: low, medium or high
- Continuous output
- 80 m²/min fog output
- 3500 W heat exchanger
- 15 min heat-up time
- 5 liter fluid capacity
- Different fluid options for different applications
- Internal or external fluid supply
- Low fluid sensing
- Self contained unit: no C02 or dry ice
- Onboard DMX
- Onboard control panel
- Optional ducting system

Specifications

PHYSICAL

Length:	866 mm (34.1 in.)
Width:	638 mm (25.1 in.)
Height:	725 mm (28.5 in.)
Dry weight:	110 kg (242.5 lbs.)

PERFORMANCE

Coverage volume:	80 m² per minute
Operating time:	Continuous, automatic level adjustment
Warm-up time (approx.):	15 minutes

CONTROL AND PROGRAMMING

Control options:	Onboard control panel, onboard DMX
Compatible remote controls:	For limited control
DMX channels:	2 (Output and Compressor)
Protocol:	USITT DMX512/1990

CONSTRUCTION

Housing:	Steel & aluminum
Heat exchanger:	3500 W, direct thermal protection

FLUID SYSTEM

Fluid pump:	Oscillating piston, high pressure X2
Onboard fluid capacity:	Internal 5 l reservoir
External fluid supply:	For larger volume remote fluid supply
Fluid consumption at peak output:	120 ml per minute

INSTALLATION

Orientation:	Floor mount only (On wheels)

CONNECTION

Remote control:	3-pin locking XLR
DMX data:	3-pin locking XLR
Power cable entry:	IEC-EN60309-2 Socket (Cee Type)

ELECTRICAL

AC power (EU models):	220-240 V nominal, 50 Hz
Main fuse (220-240 V power):	Onboard 32 A Breaker
AC power (US models):	208 V, 60 Hz
Main fuse (208 V power):	Onboard 32 A Breaker

THERMAL

Maximum ambient temperature (Ta max.):	40° C (104° F)
Exterior surface temperature, steady state:	50° C (122° F)
Max. nozzle temperature:	200° C (392° F)

APPROVALS

EU safety:	EN 50 081-1, EN 50 082-1
EU safety:	EN 60 335-1 (1995)

ACCESSORIES

Heavy Fog (B2 mix) fluid	
Heavy Fog (C3 mix) fluid	
Jem Multi-function (Analogue) Remote Control:	P/N 92765013
Ducting Kit incl. twin adapter and 2 x 5 m ducting:	P/N 92625007

ORDERING INFORMATION

Jem Glaciator X-Stream, 240 V:	P/N 92210500
Jem Glaciator X-Stream, 208 V:	P/N 92210501

Jem Roadie X-Stream™

The Jem Roadie X-Stream blends fog and air to produce a variety of effects; from an optically translucent haze to an immensely dense “white-out” of fog.

Features

- Output and density level control
- Continuous output
- 5000 m³/min fog output
- Integrated high velocity fan
- 2 x 2500 W heat exchanger
- 18 min heat-up time
- For vertical or horizontal effect projection
- 2 x 9.5 liter fluid capacity
- Different fluid options for different applications
- Low fluid sensing
- Onboard DMX
- Onboard control panel
- Optional hand-held remote control

Specifications

PHYSICAL

Length:	1140 mm (44.9 in.)
Width:	645 mm (25.4 in.)
Height:	655 mm (25.8 in.)
Dry weight:	167 kg (368.2 lbs.)

PERFORMANCE

Max. fog output (approx.):	5000 m³ per minute
Max. operating time at full output (approx.):	108 minutes
Operating time:	Continuous, automatic level adjustment
Warm-up time (approx.):	18 minutes

CONTROL AND PROGRAMMING

Control options:	Onboard control panel, onboard DMX
Compatible remote controls:	For limited control
DMX channels:	2 (output and fan)
Protocol:	USITT DMX512/1990

CONSTRUCTION

Housing:	Steel & aluminum
Heat exchanger:	2 x 2500 W, direct thermal protection

FLUID SYSTEM

Fluid pump:	Oscillating piston, high pressure X4
Onboard fluid capacity:	2 x 9.5 l
Fluid consumption at peak output:	500 ml per minute

INSTALLATION

Orientation:	Floor or flying kit

CONNECTION

Remote control:	3-pin locking XLR
DMX data:	3-pin locking XLR
Power cable entry:	IEC-EN60309-2 Socket (Cee Type)

ELECTRICAL

AC power:	208 V 60 Hz / 220 - 240 V 50 Hz
Main fuse (208-240 V power):	Onboard 25 A Breaker

THERMAL

Maximum ambient temperature (Ta max.):	40° C (104° F)
Exterior surface temperature, steady state:	50° C (122° F)
Max. nozzle temperature:	200° C (392° F)

APPROVALS

EU safety:	EN 50 081-1, EN 50 082-1
EU safety:	EN 60 335-1 (1995)

INCLUDED ITEMS

Container 9.5 l x 2:	P/N 34300528
´C´ form female socket for use with own power cable:	P/N 05327240

ACCESSORIES

Pro Smoke Studio (DX Mix) fluid
Pro Steam Simulation (AA) fluid
Pro Smoke Super (ZR Mix) fluid
Pro Smoke High Density (SP Mix) fluid
Regular DJ (DJ mix) fluid
Pro Haze (Haze mix) fluid
I-fog fluid

Jem Roadie X-Stream Remote Control:	P/N 92765025

ORDERING INFORMATION

Jem Roadie X-Stream:	P/N 92230400

Jem Roadie Compact™

Martin's industry-standard Jem Roadie X-Stream is available in a high-output, compact version that makes big-time fog and haze effects even more manageable.

Features

- Output and density level control
- Continuous output
- 2500 m^3/min fog output
- Integrated high velocity fan
- 2 x 1500 W heat exchanger
- 9 min heat-up time
- For vertical or horizontal effect projection
- 9.5 liter fluid capacity
- Different fluid options for different applications
- Low fluid sensing
- Onboard DMX, 3 & 5 pin
- Pre-programmed stand-alone macros
- Onboard control panel
- Optional multifunctional remote control

Specifications

PHYSICAL

Length:	800 mm (31.5 in.)
Width:	500 mm (19.7 in.)
Height:	600 mm (23.6 in.)
Dry weight:	80 kg (176.4 lbs.)

PERFORMANCE

Max. fog output (approx.):	2500 m^3 per minute
Max. operating time at full output (approx.):	90 minutes
Operating time:	Continuous, automatic level adjustment
Warm-up time (approx.):	9 minutes

CONTROL AND PROGRAMMING

Control options:	Onboard control panel, onboard DMX
Compatible remote controls:	For limited control
DMX channels:	2 (output and fan)
Protocol:	USITT DMX512/1990

CONSTRUCTION

Housing:	Steel & aluminum
Heat exchanger:	2 x 1500 W, direct thermal protection

FLUID SYSTEM

Fluid pump:	Oscillating piston, high pressure X2
Onboard fluid capacity:	9.5 l
Fluid consumption at peak output:	220 ml per minute

INSTALLATION

Orientation:	Floor mount (Horizontal or vertical) or flying kit

CONNECTION

Remote control:	3-pin locking XLR
DMX data:	3-pin and 5-pin XLR sockets
Power cable entry:	Hard-wired

ELECTRICAL

AC power:	208 V 60 Hz / 220 - 240 V 50 Hz
Main fuse (208-240 V power):	Onboard 16 A Breaker

THERMAL

Maximum ambient temperature (Ta max.):	40° C (104° F)
Exterior surface temperature, steady state:	50° C (122° F)
Max. nozzle temperature:	200° C (392° F)

APPROVALS

EU safety:	EN 50 081-1, EN 50 082-1
EU safety:	EN 60 335-1 (1995)

INCLUDED ITEMS

Container 9.5 l:	P/N 34300528
Hard wired mains cable 2 m (6.6 ft.)	
Flying kit	

ACCESSORIES

Pro Smoke Studio (DX Mix) fluid	
Pro Smoke Super (ZR Mix) fluid	
Pro Smoke High Density (SP Mix) fluid	
Pro Steam Simulation (AA) fluid	
Regular DJ (DJ mix) fluid	
I-fog fluid	
Pro Haze fluid	
Jem Multi-Function (Digital) Remote Control:	P/N 92765026
Ducting Kit:	P/N 92625010

ORDERING INFORMATION

Jem Roadie Compact:	P/N 92230500

Jem Hydra™

The Jem Hydra is a multi-headed fog generator which gives you total flexibility in fog placement through a maximum of 16 individually DMX controlled output heads, all serviced by one centralized base.

Features

- Central base allows heads to be positioned up to 300 meters apart
- Continuous output
- 700 m^3/min fog output (per head)
- 1500 W heat exchanger
- 2 x 25 liter fluid capacity
- Temperature control for different fluid options and applications
- Automatic tank changeover
- Low fluid sensing
- Leak detection system
- Optional self-sealed connectors for easy service
- System is DMX controllable
- Pre-programmed stand-alone macros
- Onboard control panel
- Optional multifunctional remote control
- Produces high quality CO2 effect with our special formulated Pro Stream Simulation fluid
- Create variable smoke output

Specifications

PHYSICAL

Length (Head):	440 mm (17.3 in.)
Width (Head):	392 mm (15.4 in.)
Height (Head):	167 mm (6.6 in.)
Dry Weight (Head):	13.8 kg (30.4 lbs.)
Length (Base):	664 mm (26.1 in.)
Width (Base):	392 mm (15.4 in.)
Height (Base):	939 mm (37.0 in.)
Dry weight (Base):	35 kg (77.2 lbs.) incl. two empty 25 l drums

PERFORMANCE

Max. fog output (approx.):	700 m^3 per minute per head
Max. operating time at full output (approx.):	60 minutes (full 16-head system)
Operating time:	Continuous, automatic level adjustment
Warm-up time (approx.):	9 minutes

CONTROL AND PROGRAMMING

Control options:	Onboard control panel, onboard DMX
	Instant or timer-controlled variable output
	Output is proportional for all levels above 12%
DMX channels:	1 per head, maximum 16
Protocol:	USITT DMX512/1990
Optional digital remote control:	For limited control

CONSTRUCTION

Housing:	Steel & aluminum
Heat exchanger:	1500 W, direct thermal protection

FLUID SYSTEM

Fluid pump:	Low pressure pump in Base Unit supplies constant 2.5 bar pressure
	Pump (EP5) in Head Unit increases 2.5 bar inlet pressure to 16 bar
	Solenoid valve in Head Unit for instant cut-off
Onboard fluid capacity:	2 x 25 l
Fluid consumption at peak output:	120 ml per minute per head

INSTALLATION

Orientation (Head):	Any
Orientation (Base):	Floor mount only (On wheels)

ELECTRICAL

AC power (EU models):	220-240 V nominal, 50 Hz
AC power (US models):	110-120 V nominal, 60 Hz

THERMAL

Maximum ambient temperature (Ta max.):	40° C (104° F)
Exterior surface temperature, steady state:	50° C (122° F)
Max. nozzle temperature:	200° C (392° F)

APPROVALS

EU safety:	EN 50 081-1, EN 50 082-1
EU safety:	EN 60 335-1 (1995)

INCLUDED ITEMS

Hard wired mains cable 2 m (6.6 ft.) (head)	
M8 x 13 mm (0.5 in.) safety eye (head):	P/N 08131901
Fluid line 'tee' piece 10 mm (0.4 in.) x 10 mm (0.4 in.) x6 mm (0.2 in.) (head):	P/N 26460790
Fluid line 6 mm (0.2 in.) x 10 m (32.8 ft.) (head):	P/N 62520020
Container 25 l (x2):	P/N 34300529
Fluid line 10 mm (0.4 in.) x 30 m (98.4 ft.) (x2):	P/N 14026021
Power cable 1.5 m (4.9 ft.) IEC w/o end plug:	P/N 11501012
Blanking plug 10 mm (0.4 in.) push In:	P/N 26460740
Terminator, 3 pin male hydra:	P/N 56250080
Terminator, 3 pin female hydra:	P/N 56250090

ACCESSORIES

Pro Smoke Super (ZR Mix) fluid	
Pro Smoke High Density (SP Mix) fluid	
Regular DJ (DJ mix) fluid	
Pro Steam Simulation (AA) fluid	
Pro Smoke Studio (DX Mix) fluid	
I-fog fluid	
Digital Multi-function Remote Control:	P/N 92765026
Hydra Termination Plug (Male):	P/N 56250080
Hydra Termination Plug (Female):	P/N 56250090
Self-seal connector, 2 x 6 mm m/f, valved:	P/N 92620007
Self-seal connector, 2 x 10 mm m/f, valved:	P/N 92620008
30 m length of 10 mm tubing:	P/N 92620010
Straight-through connector, 2 x 10 mm:	P/N 92620009

ORDERING INFORMATION

Jem Hydra Base Unit, 110 V:	P/N 92250300
Jem Hydra Base Unit, 240 V:	P/N 92250200
Jem Hydra Head Unit, 110 V:	P/N 92250500
Jem Hydra Head Unit, 240 V:	P/N 92250400
Jem Hydra 1.8, 110V:	P/N 92251050
Jem Hydra 1.16, 110V:	P/N 92251150
Jem Hydra 1.4, 110V:	P/N 92251250

Jem ZR44 Hi-Mass™

The Jem ZR44 Hi-Mass is a reliable and highly efficient fogger capable of precise fog delivery from subtle to massive. Ideal for a variety of settings from small venues to huge stadiums and arenas, it features advanced technology for top-quality performance, as well as advances in digital functionality such as RDM compatibility.

Features

- 1200 m³/min fog output
- Continuous output
- 1800 W heat exchanger
- 7.5 min heat-up time
- Floor standing or truss mounting
- Neutrik PowerCon connector
- Indirect Fluid Sensing System
- Proprietary Pro Steam Simulation fluid solution
- Different fluid options for different applications
- Leaves no oil residue on light fixtures
- Tough and solid design
- 3 & 5 pin DMX interface
- Prepared for multifunctional digital remote
- RDM capable
- Soft Start technology

Specifications

PHYSICAL

Length:	685 mm (27.0 in.)
Length (Inc Optional Drip Tray):	750 mm (29.5 in.)
Width:	345 mm (13.6 in.)
Height:	225 mm (8.9 in.)
Dry weight:	19 kg (41.9 lbs.)

Specifications

PERFORMANCE

Max. fog output (approx.):	1200 m 3
Max. operating time at full output (approx.)	
Operating time:	Continuous, automatic level adjustment
Warm-up time (approx.):	7.5 minutes

CONTROL AND PROGRAMMING

Control options:	Onboard analogue remote control (Supplied), Multi-Function digital remote Control options: control (Optional), DMX (3 and 5 pin), 0-10V analog, RDM capable
Remote control features:	Instant or timer-controlled variable output
	Delay time 2-144 seconds, run time 2-144 seconds
DMX channels:	1
RDM Capable:	via DMX socket

Digital link machine to machine (Using optional Digital Multi-Function remote)

CONSTRUCTION

Housing:	Steel & aluminum
Heat exchanger:	1800 W, direct thermal protection

FLUID SYSTEM

Fluid pump:	Oscillating piston, high pressure X2
Onboard fluid capacity:	9.5 l
Fluid consumption at peak output:	150 ml per minute

INSTALLATION

Orientation:	Floor or adjustable mounting bracket

CONNECTIONS

PRemote control:	2 x 3-pin locking XLR
DMX and RDM data in/out:	2 x 3-pin and 2 x 5-pin locking XLR
Power cable entry:	Neutrik PowerCon

ELECTRICAL

AAC power (EU models):	220-240 V nominal, 50 Hz
AC power (US models):	110-120 V nominal, 60 Hz
Main fuse (220-240 V power):	10 A
Main fuse (110-120 V power):	20 A

THERMAL

Maximum ambient temperature (Ta max.):	40° C (104° F)
Exterior surface temperature, steady state:	50° C (122° F)
Max. nozzle temperature:	200° C (392° F)

APPROVALS

ETL approvals (cETLus) pending

INCLUDED ITEMS

Remote control	
Container 9.5 l:	P/N 34300528

ACCESSORIES

Pro Smoke Studio (DX Mix) fluid	
Pro Smoke Super (ZR Mix) fluid	
Pro Smoke High Density (SP Mix) fluid	
Pro Steam Simulation (AA) fluid	
I-fog fluid	
Regular DJ (DJ mix) fluid	
Digital Multi-function Remote Control:	P/N 92765037
Ducting Kit incl. adapter and 5 m (16.4 ft.) of 4-inch (104mm)ducting:	P/N 92625005
Drip Tray Kit:	P/N 92620011

ORDERING INFORMATION

Jem ZR44 Hi-Mass, 110V:	P/N 92215310
Jem ZR44 Hi-Mass, 240V:	P/N 92215300

Jem K1 Hazer™

The Jem K1 Hazer is Martin's top-of-the-line hazer for high performance applications where a high level of reliability and easy serviceability is required. Feature-rich and of solid construction, the Jem K1 provides the ideal combination of continuous operation, long hang time, and low fluid consumption for greater economy.

Features

- Designed for service ease
- Continuous output
- Output and density level control
- 5000 m³/min haze output
- Integrated high velocity fan (variable fan speed)
- 600 W heat exchanger
- 2.5 liter fluid capacity
- Low fluid consumption and longer hang-time for greater economy
- Water based - no oil residue on light fixtures
- Automated shut-down procedure to prevent clogging
- Onboard DMX, 3 & 5 pin
- Onboard control panel
- Fast access set-up mode
- Optional digital remote control
- Silent Mode
- Eco mode extends run time and improves fluid economy

Specifications

PHYSICAL	
Length:	544 mm (21.4 in.)
Width:	459 mm (18.1 in.)
Height:	344 mm (13.5 in.)
Dry weight:	21.5 kg (47.4 lbs.)
PERFORMANCE	
Coverage volume:	5000 m3 per minute
Max. operating time at full output (approx.):	17 hours
Operating time:	Continuous, automatic level adjustment
Warm-up time (approx.):	5 minutes
CONTROL AND PROGRAMMING	
Control options:	Onboard control panel with 4-digit display
Control options:	Instant or timer-controlled output, 0-100% adjustable output level
Control options:	Adjustable Fan Speed Level
DMX channels:	2 (output and fan)
Optional digital remote control:	92765036
CONSTRUCTION	
Housing:	Steel & aluminum
Heat exchanger:	600 W, direct thermal protection
FLUID SYSTEM	
Fluid pump:	Oscillating piston, high pressure
Onboard fluid capacity:	2.5 l
Fluid consumption at peak output:	140 ml per hour
Compatible Fluids:	K1 Haze Fluid
INSTALLATION	
Orientation:	Floor or flying kit
CONNECTIONS	
Power connection:	Neutrik PowerCon
DMX data:	3-pin and 5-pin XLR sockets
Remote control:	3-pin locking XLR
ELECTRICAL	
AC power (EU models):	220-240 V nominal, 50 Hz
AC power (US models):	110-120 V nominal, 60 Hz
Main fuse (220-240 V power):	5 AT
Main fuse (110-120 V power):	10 AT
THERMAL	
Maximum ambient temperature (Ta max.):	40° C (104° F)
Exterior surface temperature, steady state:	40° C (104° F)
Max. nozzle temperature:	200° C (392° F)
APPROVALS	
EU EMC:	EN 6100-6-3: 2001 - Part 6-3
EU safety:	EN 60 335-1: 2002
Immunity:	EN 61000-6-1: 2001 - Part 6-1
ETL approvals (cETLus):	UL Std.998, CAN/CSA Std. C22.2 No 104-01
ACCESSORIES	
Only for use with Jem K1 Haze fluid	
Jem K1 Hazer Remote Control	P/N 92765036
ORDERING INFORMATION	
Jem K1 Hazer, 110 V	P/N 92225900
Jem K1 Hazer, 240 V	P/N 92225901

Jem Compact Hazer Pro™

Robust yet small and lightweight, the Jem Compact Hazer Pro is a versatile haze machine designed for the highly demanding professional market. Its ability to produce exceptional atmospheric haze effects in a short period of time while operating at low noise levels make it ideal for nearly any application from shows and events to theatre, TV studios, clubs, cruise ships, theme parks and more.

Features

- Finest haze production in its class
- Small particle, even haze
- Continuous output
- 1 minute heat up time
- Water-based fluid with long hang time
- Low noise
- Lightweight
- Optical Density Timer Control system (ODTC)
- Variable haze and fan controls with 5% increments
- 2.5 liter fluid capacity
- Max operating time at min output (2.5 L) - 70 hours
- Sealed fluid system for transportation
- Advanced Pump Technology (APT)
- Shutdown with automatic start-up cleaning mode (if shutdown not performed correctly)
- Shutdown button prevents clogging
- RDM ready
- On-board DMX 5pin
- User-friendly on-board control panel
- Digital remote control option
- Optional flying kit and air director

Specifications

PHYSICAL

Length:	532 mm (20.9 in.)
Width:	224 mm (8.8 in.)
Height:	278 mm (10.9 in.)
Dry weight:	8.5 kg (18.7 lbs.)

PERFORMANCE

Operating time:	Continuous
Warm-up time:	60 sec
Maximum operating time at minimum output (2.5L):	70 Hours

CONTROL AND PROGRAMMING

Control options:	Onboard digital control panel with 4 digit display
Control options:	Continuous or timer-controlled output, 0-100% adjustable output level
Control options:	Adjustable fan speed level, 0-100%
DMX channels:	3 (Haze, Fan, Special functions)
RDM:	RDM Ready
Optional digital remote control	

CONSTRUCTION

Housing:	Steel & aluminum
Heat exchanger:	900 W

FLUID SYSTEM

Fluid pump:	Oscillating piston, high pressure
Onboard fluid capacity:	2.5 l
Fluid consumption at peak output:	95 ml per hour
Compatible Fluids:	Jem C-Plus Haze Fluid TM only

INSTALLATION

Orientation: Floor or optional flying kit

CONNECTIONS

Power connection:	Neutrik PowerCon
DMX data:	5-pin XLR
Remote control:	3-pin locking XLR

ELECTRICAL

AC power (EU models):	220-240 V nominal, 50 Hz
AC power (US models):	110-120 V nominal, 60 Hz
Main fuse (220-240 V power):	6.3 AT
Main fuse (110-120 V power):	10 AT

THERMAL

Maximum ambient temperature (Ta max.):	40° C (104° F)
Exterior surface temperature, steady state:	30° C (86° F)
Max. nozzle temperature:	290° C (554° F)

APPROVALS

EU safety (EU model)
ETL approvals (cETLus) pending

ACCESSORIES

Only for use with c-plus fluid

Jem Compact Hazer Pro Remote Control:	P/N 92765040
Air Director:	P/N 92625011
Flying Kit:	P/N 92610003

ORDERING INFORMATION

Jem Compact Hazer Pro, 110 V:	P/N 92225960
Jem Compact Hazer Pro, 240 V:	P/N 92225950

Jem AF-1™

The Jem AF-1 is a compact but powerful fan designed with clubs, studios, theatres and touring applications in mind. AF-1 features DMX input as standard and can be installed from the ceiling, in the truss, or can be floor standing.

Features

- Airflow: 1600 m^3/hr
- Fan speed 0 - 2500 rpm
- Floor standing or truss mounting
- Onboard DMX
- Multifunctional remote control

Specifications

PHYSICAL	
Width:	320 mm (12.6 in.)
Height:	350 mm (13.8 in.)
Depth:	180 mm (7.1 in.)
Dry weight:	10 kg (22.0 lbs.)
PERFORMANCE	
Maximum airflow:	1600 m^3 per hour
Fan speed:	0-2500 rpm
CONTROL AND PROGRAMMING	
Control options:	Remote control (supplied), DMX, 0-10 V analog
Remote control features:	Instant or timer-controlled output, 0-100% adjustable output level Delay 2-144 seconds, run time 2-144 seconds
DMX channels:	1
Protocol:	USITT DMX512/1990
CONSTRUCTION	
Housing:	Steel
CONNECTION	
Remote control:	3-pin locking XLR
0-10 V analog:	3-pin locking XLR
DMX data:	3-pin locking XLR
Power connection:	3-pin IEC
INSTALLATION	
Orientation:	Any
ELECTRICAL	
AC power (EU models):	220-240 V nominal, 50 Hz
AC power (US models):	110-120 V nominal, 60 Hz
Main fuse (220-240 V power):	3.15 AT (slow blow)
Main fuse (110-120 V power):	5 AT (slow blow)
APPROVALS	
EU safety:	EN 50 081-1, EN 50 082-1
EU safety:	EN 60 335-1 (1995)
US safety:	UL Std. 507
INCLUDED ITEMS	
Analogue remote control c/w 5 m (16.4 ft.) cable:	P/N 92765013
Power cable 1.5 m (4.9 ft.) IEC w/o end plug:	P/N 11501012
ORDERING INFORMATION	
Jem AF-1 Fan, 110 V:	P/N 92615100
Jem AF-1 Fan, 240 V:	P/N 92615000

Jem AF-2™

The Jem AF-2 is a high-output, fully DMX controllable fan. It has been designed with theme parks, stage applications and theatres in mind.

Features

- Airflow: 6500 m³/hr
- Fan speed 0 - 1380 rpm
- Floor standing or truss mounting
- Optional "Touring Frame"
- Onboard DMX, 3 & 5 pin
- Multifunctional remote control

Specifications

PHYSICAL	
Width:	682 mm (26.9 in.)
Height:	707 mm (27.8 in.)
Depth:	318 mm (12.5 in.)
Dry weight:	17 kg (37.5 lbs.)
PERFORMANCE	
Maximum airflow:	6500 m³ per hour
Fan speed:	0-1380 rpm
CONTROL AND PROGRAMMING	
Control options:	Remote control (supplied), onboard DMX
Remote control features:	Instant or timer-controlled output, 0-100% adjustable output level Delay 2-144 seconds, run time 2-144 seconds
DMX channels:	1
Protocol:	USITT DMX512/1990
CONSTRUCTION	
Housing:	Steel & aluminum
INSTALLATION	
Orientation:	Any
CONNECTION	
Remote control:	3-pin locking XLR
DMX data:	3-pin and 5-pin XLR sockets
Power connection:	3-pin IEC
ELECTRICAL	
AC power (EU models):	220-240 V nominal, 50 Hz
AC power (US models):	110-120 V nominal, 60 Hz
Main fuse (220-240 V power):	5 AT (slow blow)
Main fuse (110-120 V power):	6.3 AT (slow blow)
APPROVALS	
EU safety:	EN 50 081-1, EN 50 082-1
EU safety:	EN 60 335-1 (1995)
US safety:	UL Std. 507
INCLUDED ITEMS	
Analogue remote control c/w 5 m (16.4 ft.) cable:	P/N 92765013
Power cable 1.5 m (4.9 ft.) IEC w/o end plug:	P/N 11501012
ACCESSORIES	
AF-2 Touring Frame:	P/N 92620006
ORDERING INFORMATION	
Jem AF-2 Fan, 110 V:	P/N 92615400
Jem AF-2 Fan, 240 V:	P/N 92615300

Magnum 2500 Hz™

The Magnum 2500 Hz is a plug-and-play, easy-to-use hazer suitable for DJ's, smaller venues, bars, and clubs. With a large fluid container and optional DMX, the hazer is ideal for installations.

Features

- Continuous output
- Output and density level control
- 2500 m³/min fog output
- Integrated fan
- 900 W heat exchanger
- 3.8 liter fluid capacity
- Fluid-out sensing
- Optional DMX interface
- Timer and output level remote control
- Internal remote control storage
- Linkable, up to 20 units can be operated at the same time with one remote or DMX

Specifications

PHYSICAL	
Length:	455 mm (17.9 in.)
Width:	285 mm (11.2 in.)
Height:	280 mm (11.0 in.)
Dry Weight:	11.9 kg (26.2 lbs.)
PERFORMANCE	
Coverage volume:	2500 m^3 per minute
Operating time:	Continuous, automatic level adjustment
Warm-up time (approx.):	6-8 minutes
CONTROL AND PROGRAMMING	
Control options:	DMX (optional accessory), Timer Remote
Control options:	Instant or timer-controlled variable output
DMX channels:	1
Protocol:	USITT DMX512/1990
CONSTRUCTION	
Housing:	Steel & aluminum
Heat exchanger:	900 W, direct thermal protection
FLUID SYSTEM	
Fluid pump:	Oscillating piston, high pressure
Onboard fluid capacity:	3.8 l
Fluid consumption at peak output:	10.5 ml per minute
INSTALLATION	
Orientation:	Floor
CONNECTION	
Power connections:	3-pin IEC male socket
DMX (with optional DMX interface):	3-pin and 5-pin XLR sockets
Remote control:	RJ-45
ELECTRICAL	
AC power (EU models):	220-240 V nominal, 50 Hz
AC power (US models):	110-120 V nominal, 60 Hz
Main fuse (220-240 V power):	6.3 A
Main fuse (110-120 V power):	10 A
THERMAL	
Maximum ambient temperature (Ta max.):	40° C (104° F)
Exterior surface temperature, steady state:	40° C (104° F)
Max. nozzle temperature:	200° C (392° F)
APPROVALS	
EU safety:	EN 60 335-1 (1995)
EU safety:	EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 50366
ETL approvals (cETLus):	UL Std. 998, CAN/CSA Std. C22.2 No 104-01
Immunity:	EN 61000-6-1, EN 61000-4-2, EN 61000-4-3
INCLUDED ITEMS	
3 m (9.8 ft.) power cable, IEC, w/o plug:	
2 m (6.6 ft.) power cable with 3-pin IEC female connector (US model)	
Container 3.8 l:	P/N 34300537
ACCESSORIES	
Pro Haze (Haze mix) fluid	
DMX Interface:	P/N 91612011
Remote control:	P/N 92765033
ORDERING INFORMATION	
Martin Magnum 2500HZ, 110 V:	P/N 92225400
Martin Magnum 2500HZ, 240 V:	P/N 92225450

Magnum 2000™

The industry's most specified fog machine ever, the Magnum 2000 is the authority in portable fog machines. Few other portable foggers can match the output of the Magnum 2000, or its logical plug and fog simplicity.

Features

- Continuous output
- 700 m^3/min fog output
- 1600 W heat exchanger
- 8 min heat-up time
- Floor standing or truss mounting
- 9.5 liter fluid capacity
- Different fluid options for different applications
- DMX with optional DMX interface module
- Optional DMX
- Onboard control panel
- Removable panel for remote control
- Timer and output level remote control

Specifications

PHYSICAL	
Length:	695 mm (27.4 in.)
Width:	356 mm (14.0 in.)
Height:	325 mm (12.8 in.)
Dry weight:	13 kg (28.7 lbs.)
PERFORMANCE	
Max. fog output (approx.):	700 m^3 per minute
Max. operating time at full output (approx.):	180 minutes
Warm-up time (approx.):	8 minutes
CONTROL AND PROGRAMMING	
Control options:	Remote control (supplied), DMX with optional DMX interface module
Remote control features:	Instant or timer-controlled variable output
CONSTRUCTION	
Housing:	Steel & aluminum
Heat exchanger:	1500 W, direct thermal protection
FLUID SYSTEM	
Fluid pump:	Oscillating piston, high pressure
Onboard fluid capacity:	9.5 l
Fluid consumption at peak output:	95 ml per minute
INSTALLATION	
Orientation:	Floor or flying kit
CONNECTION	
Remote control:	3-pin locking XLR
0-10 V analog:	3-pin locking XLR
Power cable entry:	Hard-wired
ELECTRICAL	
AC power (EU models):	220-240 V nominal, 50 Hz
AC power (US models):	110-120 V nominal, 60 Hz
Main fuse (220-240 V power):	10 AT (slow blow)
Main fuse (110-120 V power):	15 AT (slow blow)
THERMAL	
Maximum ambient temperature (Ta max.):	40° C (104° F)
Exterior surface temperature, steady state:	50° C (122° F)
Max. nozzle temperature:	200° C (392° F)
APPROVALS	
EU safety:	EN 50 081-1, EN 50 082-1
EU safety:	EN 60 335-1 (1995)
INCLUDED ITEMS	
Analogue remote control (panel mounted):	P/N 90760200
Hard wired mains cable 2 m (6.6 ft.):	
XLR Cable 5 m (16.4 ft.) (for remote):	P/N 11820008
Container 9.5 l:	P/N 34300528
ACCESSORIES	
Regular DJ (DJ mix) fluid	
Pro Smoke Studio (DX Mix) fluid	
Pro Smoke Super (ZR Mix) fluid	
Pro Smoke Super (Fragranced) fluid	
Pro Smoke High Density (SP Mix) fluid	
I-fog fluid	
Ducting Kit incl. adapter and 5 m of 4-inch (104mm) ducting:	P/N 92625006
DMX interface Magnum 2000:	P/N 90758020
ORDERING INFORMATION	
Martin Magnum 2000, 230 V:	P/N 92228000
Martin Magnum 2000, 115 V:	P/N 92228100

Magnum 1800™

The Magnum 1800 is a high-powered fogger suitable for any installation - from the largest to the smallest. Highly flexible, the Magnum 1800 is built sleek and rugged.

Features

- Continuous output
- 580 m^3/min fog output
- 1150 W (240 V) / 1000 W (110 V) heat exchanger
- 9 min heat-up time
- Optional flying kit
- 3.8 liter fluid capacity
- Different fluid options for different applications
- Onboard DMX
- Internal remote control storage
- Timer and output level remote control
- Linkable, up to 20 units can be operated at the same time with one remote or DMX

Specifications

PHYSICAL	
Length:	500 mm (19.7 in.)
Width:	232 mm (9.1 in.)
Height:	266 mm (10.5 in.)
Dry weight:	15 kg (33.1 lbs.)
PERFORMANCE	
Max. fog output (approx.):	580 m^3 per minute
Max. operating time at full output (approx.):	90 minutes
Operating time:	Continuous, automatic level adjustment
Warm-up time (approx.):	9 minutes
CONTROL AND PROGRAMMING	
Control options:	Remote control (supplied), onboard DMX
Remote control features:	Instant or timer-controlled variable output
CONSTRUCTION	
Housing:	Steel & aluminum
Heat exchanger:	1150 W, direct thermal protection
FLUID SYSTEM	
Fluid pump:	Oscillating piston, high pressure
Onboard fluid capacity:	3.8 l
Fluid consumption at peak output:	70 ml per minute
INSTALLATION	
Orientation:	Floor or flown in optional hanging bracket
CONNECTION	
DMX:	3-pin locking XLR
Remote control:	RJ-45
Power cable entry:	3-pin IEC
ELECTRICAL	
AC power (EU models):	220-240 V nominal, 50 Hz
AC power (US models):	110-120 V nominal, 60 Hz
Main fuse (220-240 V power):	6.3 AT (slow blow)
Main fuse (110-120 V power):	10 AT (slow blow)
THERMAL	
Maximum ambient temperature (Ta max.):	40° C (104° F)
Exterior surface temperature, steady state:	50° C (122° F)
Max. nozzle temperature:	200° C (392° F)
APPROVALS	
EU safety:	EN 50 081-1, EN 50 082-1
EU safety:	EN 60 335-1 (1995)
INCLUDED ITEMS	
Remote control with 5 m (16.4 ft.) cable and RJ-45 connector:	P/N 92765032
Power cable 1.5 m (4.9 ft.) IEC w/o end plug:	P/N 11501012
Container 3.8 l:	P/N 34300537
ACCESSORIES	
Regular DJ fluid	
Pro Smoke Super (ZR Mix) fluid	
Pro Smoke Studio (DX Mix) fluid	
Pro Smoke High Density (SP Mix) fluid	
I-Fog	
Hanging bracket:	P/N 92610011
Ducting Kit:	P/N 92625009
ORDERING INFORMATION	
Martin Magnum 1800, 240 V:	P/N 92229011
Martin Magnum 1800, 110 V:	P/N 92229000

Magnum 1200™

The Magnum 1200 delivers a heavy punch of fog. It's built tough to meet the rugged demands of 24/7 nightlife.

Features

- Continuous output
- 290 m^3/min fog output
- 850 W heat exchanger
- 8 min heat-up time
- Optional flying kit
- 2.3 liter fluid capacity
- Different fluid options for different applications
- Optional DMX interface
- Internal remote control storage
- Timer and output level remote control
- Linkable, up to 20 units can be operated at the same time with one remote or DMX

Specifications

PHYSICAL	
Length:	450 mm (17.7 in.)
Width:	205 mm (8.1 in.)
Height:	244 mm (9.6 in.)
Dry weight:	10 kg (22.0 lbs.)
PERFORMANCE	
Max. fog output (approx.):	290 m^3 per minute
Max. operating time at full output (approx.):	90 minutes
Operating time:	Continuous, automatic level adjustment
Warm-up time (approx.):	8 minutes
CONTROL AND PROGRAMMING	
Control options:	Remote control (supplied), DMX with optional DMX interface module
Remote control features:	Instant or timer-controlled variable output
CONSTRUCTION	
Housing:	Steel & aluminum
Heat exchanger:	850 W, direct thermal protection
FLUID SYSTEM	
Fluid pump:	Oscillating piston, high pressure
Onboard fluid capacity:	2.3 l
Fluid consumption at peak output:	50 ml per minute
INSTALLATION	
Orientation:	Floor or flying kit
CONNECTION	
Remote control:	RJ-45
DMX (with optional DMX interface):	3-pin locking XLR
Power cable entry:	3-pin IEC
ELECTRICAL	
AC power (EU models):	220-240 V nominal, 50 Hz
AC power (US models):	110-120 V nominal, 60 Hz
Main fuse (220-240 V power):	5 AT (slow blow)
Main fuse (110-120 V power):	10 AT (slow blow)
THERMAL	
Maximum ambient temperature (Ta max.):	40° C (104° F)
Exterior surface temperature, steady state:	50° C (122° F)
Max. nozzle temperature:	200° C (392° F)
APPROVALS	
EU safety:	EN 50 081-1, EN 50 082-1
EU safety:	EN 60 335-1 (1995)
US safety (US model):	UL Std. 60335-1
INCLUDED ITEMS	
Power cable 1.5 m (4.9 ft.) IEC w/o end plug:	P/N 11501012
Remote control with 5 m (16.4 ft.) cable and RJ-45 connector:	P/N 92765032
Container 2.3 l:	P/N 34300536
ACCESSORIES	
Regular DJ(DJ mix) fluid	
Pro Smoke Super (ZR Mix) fluid	
DMX Interface:	P/N 91612011
Hanging bracket:	P/N 92610010
Ducting Kit:	P/N 92625009
ORDERING INFORMATION	
Martin Magnum 1200, 110 V:	P/N 92228910
Martin Magnum 1200, 240 V:	P/N 92228911

Magnum 850™

The Magnum 850 is the perfect fog machine for small nightclubs, mobile DJs and bands. Compact and lightweight, it offers substantial cost and maintenance benefits over a long operational life.

Features

- Continuous output
- 200 m³/min fog output
- 750 W heat exchanger
- 8 minute heat-up time
- 1 liter fluid capacity
- Different fluid options for different applications
- Housing: Steel and aluminum
- Hand-held remote control
- Timer remote control (optional)
- Linkable, up to 20 units can be operated at the same time with one remote

Specifications

PHYSICAL	
Length:	409 mm (16.1 in.)
Width:	165 mm (6.5 in.)
Height:	186 mm (7.3 in.)
Dry weight:	9.9 kg (21.8 lbs.)
PERFORMANCE	
Max. fog output (approx.):	200 m^3 per minute
Max. operating time at full output (approx.):	80 minutes
Operating time:	Continuous, automatic level adjustment
Warm-up time (approx.):	8 minutes
CONTROL AND PROGRAMMING	
Control options:	Remote control (supplied)
Remote control features:	Manual switch
CONSTRUCTION	
Housing:	Steel & aluminum
Heat exchanger:	750 W, direct thermal protection
FLUID SYSTEM	
Fluid pump:	Oscillating piston, high pressure
Onboard fluid capacity:	1 l
Fluid consumption at peak output:	35 ml per minute
INSTALLATION	
Orientation:	Floor
CONNECTION	
Remote control:	RJ-45
Power connection:	3-pin IEC male socket
ELECTRICAL	
AC power (EU models):	220-240 V nominal, 50 Hz
AC power (US models):	110-120 V nominal, 60 Hz
Main fuse (220-240 V power):	6.3 AT (slow blow)
Main fuse (110-120 V power):	10 AT (slow blow)
THERMAL	
Maximum ambient temperature (Ta max.):	40° C (104° F)
Exterior surface temperature, steady state:	40° C (104° F)
Max. nozzle temperature:	200° C (392° F)
APPROVALS	
EU safety:	EN 50 081-1, EN 50 082-1
EU safety:	EN 60 335-1 (1995)
US safety:	UL Std. 60335-1
INCLUDED ITEMS	
Remote control:	P/N 92765030
Power cable 1.5 m (4.9 ft.) IEC w/o end plug:	P/N 11501012
Container 1 l:	P/N 34300001
ACCESSORIES	
Regular DJ fluid	
Pro Smoke Super (ZR Mix) fluid	
Timer Remote (Mag 850):	P/N 92765032
ORDERING INFORMATION	
Martin Magnum 850, 110 V:	P/N 92229110
Martin Magnum 850, 240 V:	P/N 92229111

Magnum 650™

The Magnum 650 offers the perfect boost of dense white fog to enhance every light effect. The fast heat-up time and extended operational period place the Magnum 650 as the clear leader in its class.

Features

- 160 m^3/min fog output
- 600 W heat exchanger
- 7 min heat-up time
- 1 liter fluid capacity
- Different fluid options for different applications
- Housing: Steel and aluminum
- Hand-held remote control

Specifications

PHYSICAL	
Length:	293 mm (11.5 in.)
Width:	216 mm (8.5 in.)
Height:	170 mm (6.7 in.)
Dry weight:	4.2 kg (9.3 lbs.)
PERFORMANCE	
Max. fog output (approx.):	160 m^3 per minute
Max. operating time at full output (approx.):	47 minutes
Warm-up time (approx.):	7 minutes
CONTROL AND PROGRAMMING	
Control options:	Remote control (supplied)
Remote control features:	Manual switch
CONSTRUCTION	
Housing:	Steel & aluminum
Heat exchanger:	600 W, direct thermal protection
FLUID SYSTEM	
Fluid pump:	Oscillating piston, high pressure
Onboard fluid capacity:	1 l
Fluid consumption at peak output:	23 ml per minute
INSTALLATION	
Orientation:	Floor
CONNECTION	
Remote control:	Hard-wired
Power connection:	3-pin IEC male socket
ELECTRICAL	
AC power (EU models):	220-240 V nominal, 50 Hz
AC power (US models):	110-120 V nominal, 60 Hz
Main fuse (220-240 V power):	5 AT (slow blow)
Main fuse (110-120 V power):	10 AT (slow blow)
THERMAL	
Maximum ambient temperature (Ta max.):	40° C (104° F)
Exterior surface temperature, steady state:	50° C (122° F)
Max. nozzle temperature:	200° C (392° F)
APPROVALS	
EU safety:	EN 50 081-1, EN 50 082-1
EU safety:	EN 60 335-1 (1995)
US safety:	UL Std. 60335-1
INCLUDED ITEMS	
Power cable 1.5 m (4.9 ft.) IEC w/o end plug:	P/N 11501012
Container 1 l:	P/N 34300001
ACCESSORIES	
Regular DJ fluid	
Pro Smoke Super (ZR Mix) fluid	
ORDERING INFORMATION	
Martin Magnum 650, 110 V:	P/N 92228810
Martin Magnum 650, 240 V:	P/N 92228811

Magnum Club Smoke™

Magnum Club Smoke is a unique twin-headed fog package with a remote, groundbased fluid supply. The two compact fog heads (each with a 1000 W heater) deliver a continuous, high volume of dense white fog.

Features

- Base unit allows heads to be positioned up to 50 meters away
- Up to 4 heads in one system
- Continuous output
- 500 m^3/min fog output (per head)
- 1000 W heat exchanger
- 7 min heat-up time
- Truss mounting
- 10 liter fluid capacity
- Different fluid options for different applications
- Onboard DMX
- Multifunctional remote control

Specifications

PHYSICAL

Length (Head):	330 mm (13.0 in.)
Width (Head):	310 mm (12.2 in.)
Height (Head):	165 mm (6.5 in.)
Dry Weight (Head):	10 kg (22.0 lbs.)
Length (Base):	410 mm (16.1 in.)
Width (Base):	290 mm (11.4 in.)
Height (Base):	480 mm (18.9 in.)
Dry weight (Base):	12 kg (26.5 lbs.)

PERFORMANCE

Max. fog output (approx.):	500 m^3 per minute per head
Max. operating time at full output (approx.):	71 minutes (full 4-head system)
Operating time:	Continuous, automatic level adjustment
Warm-up time (approx.):	7 minutes

CONTROL AND PROGRAMMING

Control options:	Remote control (supplied), DMX, 0-10 V analog
Remote control features:	Instant or timer-controlled variable output
Timer range:	Delay time 2-144 seconds, run time 2-144 seconds
DMX channels:	1
Protocol:	USITT DMX512/1990

CONSTRUCTION

Housing:	Steel & aluminum
Heat exchanger:	1000 W, direct thermal protection

FLUID SYSTEM

Fluid pump:	Oscillating piston, high pressure X2
Onboard fluid capacity:	10 l
Fluid consumption at peak output:	100 ml per minute, per head

INSTALLATION

Orientation (Head):	Any (ceiling panel or wall recommended)
Orientation (Base):	Floor or wall mount

CONNECTIONS

Remote control:	3-pin locking XLR
DMX data:	3-pin locking XLR
Power cable entry:	3-pin IEC male socket

ELECTRICAL

AC power (EU models):	220-240 V nominal, 50 Hz
AC power (US models):	110-120 V nominal, 60 Hz
Main fuse (220-240 V power) Head:	6.3 AT (slow blow)
Main fuse (110-120 V power) Head:	12.5 AT (slow blow)
Main fuse (220-240 V power) Base:	3.15 AT (slow blow)
Main fuse (110-120 V power) Base:	5 AT (slow blow)

THERMAL

Maximum ambient temperature (Ta max.):	40° C (104° F)
Exterior surface temperature, steady state:	50° C (122° F)
Max. nozzle temperature:	200° C (392° F)

APPROVALS

EU safety:	EN 50 081-1, EN 50 082-1
EU safety:	EN 60 335-1 (1995)

INCLUDED ITEMS

Power cable 1.5 m (4.9 ft.) IEC w/o end plug:	P/N 11501012
Analogue remote control c/w 5 m (16.4 ft.) cable:	P/N 92765014
Container 10 l:	P/N 34300520
Fluid line 6 mm (0.2 in.) x 10 m (32.8 ft.) (head):	P/N 62520020
Fluid line 'tee' piece 6 mm (0.2 in.) x 6 mm (0.2 in.) x 6 mm (0.2 in.)(c/w head):	P/N 26460060

ACCESSORIES

Regular DJ fluid	
Pro Smoke Super (ZR Mix) fluid	
Pro Smoke Super (Fragranced) fluid	
I-fog fluid	
10 m length of 6 mm fluid line for Club Smoke head*:	P/N 62520020
T-connector for Club Smoke fluid line:	P/N 26460060

**For alternative lengths please contact jem-service@martin.dk*

ORDERING INFORMATION

Martin Magnum Club Smoke Base, 110 V:	P/N 92250100
Martin Magnum Club Smoke Base, 240 V:	P/N 92250000
Martin Magnum Club Smoke Heads (x2), 110 V:	P/N 92620001
Martin Magnum Club Smoke Heads (x2), 240 V:	P/N 92620000

Smoke and Haze Machine Application Chart*

APPLICATION	Mobile DJ	Night club & Bar Small venues	Night club & Bar Medium - large venues	TV Studio / Film	Theatre / Show	Stadium / Arena	Cruise ships	Theme parks / Resorts etc	Simulation / Training	Rental / Hire	Events /Corporate	Commercial / Architectural
Jem Glaciator X-Stream™												
Jem Hydra™												
Jem K1 Hazer™												
Jem Compact Hazer Pro™												
Jem Roadie Compact™												
Jem Roadie X-Stream™												
Jem ZR44 Hi-Mass™												
Magnum 1200™												
Magnum 1800™												
Magnum 2000™												
Magnum 2500 Hz™												
Magnum 850™												
Magnum 650™												
Magnum Club Smoke™												

** Above chart are guidelines only*

Primary Application

Secondary Application

Fluid Matrix

	Heavy Fog Fluid (B2 mix)™	Heavy Fog Fluid (C3 mix)™	i-fog™	K1 Haze Fluid™	C+ Fluid™	Pro Haze Fluid™	Pro Smoke High Density™	Pro Smoke Studio (DX mix)™	Pro Smoke Super (ZR mix)™	Pro Steam Simulation™	Regular DJ Fluid (DJ mix)™
Jem Glaciator X-Stream™	■	■									
Jem Roadie X-Stream™			■			■	■	■	■	■	■
Jem Roadie Compact™			■			▒	■	■	■	■	■
Jem Hydra™			■			▒	■	■	■	■	■
Jem ZR44 Hi-Mass™			■				■	■	■	■	■
Jem K1 Hazer™				■							
Jem Compact Hazer Pro™					■						
Magnum 2500 HZ™						■					
Magnum 2000™			■				■	■	■		■
Magnum 1800™			■				■	■	■		■
Magnum 1200™								■	■		■
Magnum 850™								■	■		■
Magnum 650™								■	■		■
Magnum Club Smoke™			■						■		■

■ Recommended

▒ May also be used (with possible recalibration needed)

Fog and Haze Fluids

Martin offers the widest and most popular range of atmosphere generating fog, haze and heavy fog fluid around. Ideal for use in theatres, discos, clubs, concerts, festivals and even television applications, our fluid is effective, safe and economical. All fluids are environmentally friendly and water based. They are made from the highest quality food grade polyfunctional alcohols which are diluted with water and purified by double reverse osmosis and an ultra-violet filtration process. This guarantees a virtually mineral and bacteria free product.

We want you to be totally satisfied with your fog machine. Only by using our fluid can you be 100% guaranteed that your fog machine will operate optimally. Possible problems, including a shortened machine life and possible health risks, may occur with use of other types of fog fluid.

HAZE

Pro Haze fluid™
Specially formulated for the range of hazers including ZR 24/7, Magnum Hazer and Magnum 2500 Hz this fluid is also ideal for use with the Roadie X-Stream and Roadie Compact when in Haze mode. A fine optically transparent airborne medium is produced with a light to medium index of refraction - ideal for beam projection. Available in 4 x 2.5 l, 9.5 l and 220 l containers.

C-Plus fluid™
This extremely light, molecular fluid produces very fine haze particles and was designed for the Jem Compact Hazer Pro™ only. Specially made to highlight light beams and lasers, C-Plus fluid produces an evenly dispersed atmospheric haze with an exceptionally long hang time for optimal visual clarity.

K1 Haze fluid™
K1 Haze Fluid is specially developed for the Jem K1 Hazer. The fluid is optimized to create small particulate haze with a high degree of uniformity, perfect for beam projection. Besides delivering a unique effect, the K1 Haze Fluid is formulated to generate a long operating and hang time. Hence the Jem K1 Hazer has a very low fluid consumption when running on this dedicated fluid.

FOG

i-fog™
i-fog is not only kind to your lights, but is also more economical to use thanks to its incredible long "hang time" characteristics. In environments unaffected by extraction and air-conditioning, i-fog can be expected to last 30% longer. In fact it is essential that all auto-timer programmed foggers be adjusted to lower output, shorter duration and longer delays in repeat firing, to avoid atmospheric saturation. Available in 4 x 5 l, 9.5 l and 220 l containers.

Pro Smoke Super (ZR mix)™
This industry standard fluid is the automatic choice of most users. A dense white airborne fog is produced with a medium length dispersal time. Its medium to high index of refraction makes this formula ideal for all effects. Available in 4 x 5 l, 9.5 l, 25 l and 220 l containers.

Pro Smoke Studio (DX mix)™
In a studio or theatre environment, a lighter, faster dispersing fog is often preferred. Pro-Smoke Studio offers a less dense environment to Pro-Smoke Super and is therefore less likely to interfere with TV camera focusing. Available in 4 x 5 l containers.

Pro Smoke High Density (SP mix)™
The SP mix generates a high density, white, airborne fog with a very high index of refraction and slower evaporation rate. It is well suited for scenic obscuring and strobes "white-out". Available in 4 x 5 l, 9.5 l and 220 l containers.

Regular DJ fluid (DJ mix)™
This specially formulated economy mix is perfect for medium density, airborne fog effects. It is particularly well suited for the Magnum 650 and 850. Available in 4 x 5 l, 9.5 l and 220 l containers.

Pro Steam Simulation™
Steam simulation fluid specifically designed for 'steam' effects. Creates a white burst, but is fast dispersing. Used in the Hydra system, ZR44 Hi-Mass or the Roadie Compact you get 'CO2 burst' line effects. Available in 9.5 l and 25 l containers

HEAVY FOG

Heavy fog fluid (B2 mix)™
This specially made fluid produces a dense ground-hugging effect which will disperse and evaporate before any visible rising. B2 is ideally suited for dramatic scenes involving a lot of stage activity or dance. Available in 4 x 5 l, 25 l and 220 l containers.

Heavy fog fluid (C3 mix)™
A longer lasting, higher density fog is sometimes required in a more controlled environment. With its longer "hang time", C3 Mix is ideal for "waterfall" and "curtain" type effects. Available in 4 x 5 l and 220 l containers.

Accessories

A comprehensive range of accessories is available to enhance the capabilities of our fog and haze generators. Every installation, theatrical production or staged event has specific requirements and Martin smoke machine accessories help to tailor our standard range of machines for these special applications.

Our fog and haze machines are designed to give long reliable service. However, it is quite conceivable that your requirements might change and when they do, many of yesterday's models can be simply upgraded for today's needs.

DUCTING SYSTEMS
The range of Ducting Systems is designed for use when the fog needs to be distributed to less accessible locations. The wide diameter ducting will minimize condensation and maximize fog flow.
- Available for: Magnum 650, Magnum 850, Magnum 1200, Magnum 1800, Magnum 2000, ZR44 Hi-Mass, Glaciator X-Stream and Roadie Compact.
- Ducting Systems come with ducting adapter and 5 meters of ducting.
- Glaciator Twin Ducting System - includes twin outlet ducting adapter, fixings and 2 x 5 m of 150 mm diameter ducting.

DRIP TRAYS
All installers of night club fogging systems will appreciate this useful accessory. The slim line tray simply attaches to the front edge of the fog machine and is designed to catch any small drops of condensation, which typically form around the fog output nozzle. The tray is fitted with a highly absorbent material, which will dry out automatically thanks to the heat transfer from the machines' vaporizing chamber.

HYDRA ACCESSORIES
The list of accessories for the Hydra system is available for larger installations or longer fluid line runs. Also the list features the Self-sealed Connectors that allow you to easily service the system or even take it on touring!
- Self-seal Connector 2x6 mm
- Self-seal Connector 2x10 mm
- Connector 2x10 mm straight
- Tubing 10 mm, 30 m
- Tubing 6 mm, 50 m

JEM COMPACT HAZER PRO AIR DIRECTOR
The Air Director redirects haze output for more accurate placement.

MAGNUM CLUB SMOKE ACCESSORIES
The Magnum Club Smoke is supplied with the accessories needed to get you started. However, it may be necessary to extend fluid lines or add extra Fog Heads. A full range of fluid line connectors is available to meet the varying challenges of club installations. All fittings are of a "push-in" type and require no tools.
- 6 mm Nylon Fluid Line
- 6 mm to 6mm Push-in Connectors (for joining lengths of 6mm fluid line)
- 6 mm "T" Connector (for splitting fluid supply to an additional (Fog Head)

DMX INTERFACE
Martin's range of DMX interfaces for Magnum and Jem smoke machines allows you to upgrade most models of Fog and Haze Machines from Analog control (standard fog machine controller) to accepting a control signal from a DMX Source.
- DMX Interface for Magnum 2000
- DMX Interface for Magnum 1200
- DMX Interface for Magnum 2500 Hz

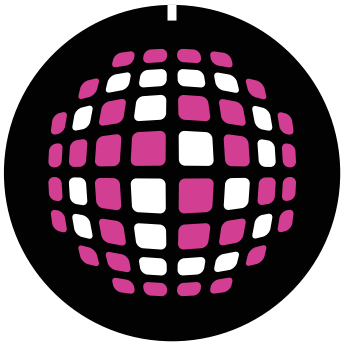
REMOTE CONTROL
Many Martin fog and haze machines are supplied with a remote control, or with the possibility to use a remote control. Martin offers several remote controls such as simple on/off remotes, timer and output control remotes, and digital remote controls to run fog and haze machines from backstage.

JEM COMPACT HAZER PRO HANGING BRACKET

ACCESSORIES

- Gobos
- Colors
- Lenses and filters
- Lamps
- Rigging
- Flightcases
- Cables
- Tools
- Service

Gobos



Gobos are thin masks used to create special lighting patterns, textures or effects and can also be used to project images and logos. As visually important as color, gobo patterns can add dramatic or subtle effects to any projection surface.

The Martin gobo selection includes all the most popular and useful designs and are always available for instant delivery.

View the complete selection of Martin gobos at www.martin com

Colors

Martin lights are equipped with high-quality dichroic color filters enabling rich and long-lasting color projections.

The advantage of using dichroic filters is the durability and efficiency they offer. Dichroic filters are designed to reflect – rather than absorb – light's energy and since they absorb little heat, they can transmit more light and remain stable without fading or burning out. They also provide excellent color uniformity with no edge distortion, stray colors or halation effects.

A wide variety of different color options is available. To view the full array of available colors, visit the Martin website at www.martin.com. For special color requests, contact your local Martin dealer.

Lenses and filters

Martin offers a variety of narrow to wide angle lenses, diffusers and filters useful in manipulating the light beam. Made of the highest quality materials, they are available as accessories on select Martin products.

ACCESSORIES FOR MAC 101

Set of 8 narrow-angle diffusers for MAC 101	P/N 91616023
Set of 8 medium-angle diffusers for MAC 101	P/N 91616018

ACCESSORIES FOR STAGEBAR 2

Set of 4 Narrow diffuser filters, Stagebar 2 S	P/N 91614035
Set of 4 Medium diffuser filters, Stagebar 2 S	P/N 91614036
Set of 4 Narrow diffuser filters, Stagebar 2 L	P/N 91614037
Set of 4 Medium diffuser filters, Stagebar 2 L	P/N 91614038

ACCESSORIES FOR MAC 2000 WASH XB

MAC 2000 Wash + XB Beam Kit	P/N 91610103
Front module with Fresnel lens (installed)	P/N 55203003
Front module with PC lens	P/N 55203006
Front module with super wide-angle lens	P/N 55203012

Lamps

Part Number	Lamp	Type	Wattage	Used in
97010307	MAX-15 Xenon lamp	Xenon	3000	Atomic 3000 DMX
97010308	MAX-7 Xenon lamp	Xenon	3000	Atomic 3000 DMX
97010322	Osram HTI 1500 W/D7/60 SharXS lamp	Metal Halide	1500	MAC 2000 Wash XB
97010347	Osram HTI 1500W/60/ P50 lamp	Metal Halide	1500	MAC III Performance MAC III Profile
97010332	GE CSR1500/S/DE/60S Staybright lamp	Metal Halide	1500	MAC 2000 Beam XB * MAC 2000 Wash XB *
97010340	Philips MSR Gold 1500 Fastfit 1CT	Metal Halide	1500	MAC III Performance * MAC III Profile *
97010345	Philips MSR Gold 1510 SA/DE lamp	Metal Halide	1500	MAC 2000 Beam XB * MAC 2000 Wash XB *
97010348	HTI 1500W/60/P50 M3W	Metal Halide	1500	MAC III AirFX MAC III Wash
97000006	Philips Hi-Brite 1200/80 FastFit 80 V lamp	Tungsten Halogen	1200	MAC TW1, 80 V *
97000112	Philips 1200/115 FastFit 115 V lamp	Tungsten Halogen	1200	MAC TW1 *
97000113	Philips 1200/230 FastFit 230 V lamp	Tungsten Halogen	1200	MAC TW1 *
97000114	Philips 1200/240 FastFit 240 V lamp	Tungsten Halogen	1200	MAC TW1 *
97010304	Osram HTI 1200 D7/60 SharXS lamp	Metal Halide	1200	MAC 2000 Performance II * MAC 2000 Profile II * MAC 2000 Wash *
97010310	Philips MSR 1200 SA/DE Gold lamp	Metal Halide	1200	MAC 2000 Performance II MAC 2000 Profile II MAC 2000 Wash
97010313	Philips MSD 1200 lamp	Metal Halide	1200	Exterior 1200 Image Projector Exterior 1200 Wash
97010330	GE CSR1200/S/DE/60 lamp	Metal Halide	1200	MAC 2000 Performance II * MAC 2000 Profile II * MAC 2000 Wash *
97010331	GE CSR1200/S/DE/60S Staybright lamp	Metal Halide	1200	MAC 2000 Performance II * MAC 2000 Profile II * MAC 2000 Wash *
97010346	LOK-IT HTI 1000W/PS	Metal Halide	1000	MAC Viper Profile MAC Viper AirFX MAC Viper Wash
97010212	Osram HTI 700/ D4/75 lamp	Metal Halide	700	MAC 700 Profile MAC 700 Wash
97010240	GE CSR700/S/DE/60 lamp Philips MSR Gold 700 SA/2 DE Sylvania BA 700/2 DE S 7,5	Metal Halide	700	MAC 700 Profile * MAC 700 Wash *
97010312	Philips MSR Gold 700 SA/2 DE lamp	Metal Halide	700	MAC 700 Profile * MAC 700 Wash *
97010200	Osram HSR 575/2 lamp	Metal Halide	575	Exterior 600 * MAC 600 * MAC 600 NT *
97010201	Philips MSR 575/2 lamp	Metal Halide	575	Exterior 600 * MAC 600 MAC 600 NT

** Approved for this product, but not included*

Lamps

Part Number	Lamp	Type	Wattage	Used in
97010202	Philips MSD 575 lamp	Metal Halide	575	Exterior 600 MAC 600 * MAC 600 NT *
97010207	Osram HSD 575 lamp	Metal Halide	575	Exterior 600 * MAC 600 * MAC 600 NT *
97010230	GE CSR 575/S/DE/70 lamp	Metal Halide	575	MAC 575 Krypton
97010211	Osram HTI 400/D3 lamp	Metal Halide	400	MAC 550
97000104	Osram ELC, 24 V / 250 W, 50 hour halogen lamp	Halogen	250	Raptor * T-Rex *
97000107	Philips 500 h ELC halogen lamp	Halogen	250	T-Rex *
97000108	Osram ELC-7/X, 24 V / 250 W, 700 hour halogen lamp	Halogen	250	T-Rex *
97000111	Philips ELC 10H 250 W 1000 hour lamp	Halogen	250	Mania EFX500 Mania SCX600 Raptor T-Rex
97000115	Philips 6958 10H 24 V, 250 W 1000 hour lamp	Halogen	250	Mania DC3 Mania PR1
97010100	Philips MSD 250/2 lamp	Metal Halide	250	MAC 250 Krypton * Wizard Extreme * CX-10 Extreme MAC 250 Entour * MAC 250 Wash * MX-10 Extreme
97010116	Osram HSD 250/80 lamp	Metal Halide	250	MAC 250 Entour * MAC 250 Wash * Wizard Extreme MAC 250 Krypton *
97010119	Sylvania BA 250/2	Metal Halide	250	MAC 250 Entour MAC 250 Wash Wizard Extreme MAC 250 Krypton
97000110	Philips EFR/5H JCR 15 V, 150 W H5 halogen lamp	Halogen	150	Mania SCX500
97010101	Osram HQI-R 150 lamp	Metal Halide	150	FiberSource CMY150 * FiberSource QFX 150
97010111	Philips CDM-SA/T 150 W lamp	Metal Halide	150	Alien 02 Pendant Alien 02 Spot Exterior 200 Inground 200 Mania SCX700 Mania SCX800 smartMAC* Mania EFX600 Mania EFX700 Mania EFX800

** Approved for this product., but not included*

Lamps

Part Number	Lamp	Type	Wattage	Used in
97010113	Philips CDM-SA/R 150 lamp	Metal Halide	150	FiberSource B150 FiberSource CMY150
97010117	Philips MSD 150/2 lamp	Metal Halide	150	smartMAC
97000004	Philips EFP/8H 12 V, 100 W lamp	Halogen	100	Mania DC1 Mania DC2 Mania EF2 Mania EF3 Mania EF4
97020006	Osram T5 FQ 54 W/60 HO red tube	Fluorescent	54	Cyclo Directional Cyclo IP65 Directional Stage Cyclo Cyclo IP65 03 Cyclo IP65 03 DMX
97020007	Osram T5 FQ 54 W/66 HO green tube	Fluorescent	54	Cyclo Directional Cyclo IP65 Directional Stage Cyclo Cyclo IP65 03 Cyclo IP65 03 DMX
97020008	Osram T5 FQ 54 W/67 HO blue tube	Fluorescent	54	Cyclo Directional Cyclo IP65 Directional Stage Cyclo Cyclo IP65 03 Cyclo IP65 03 DMX
97020009	Osram T5 FQ 54 W/827 HO 2700 K warm white tube	Fluorescent	54	Stage Cyclo * Cyclo IP65 Directional *
97020010	Osram T5 FQ 54 W/840 HO 4000 K cool white tube	Fluorescent	54	Stage Cyclo * Cyclo IP65 Directional *
97020011	Osram T5 FQ 54 W/865 HO 6500 K daylight white tube	Fluorescent	54	Stage Cyclo * Cyclo IP65 Directional *
97000005	Osram ENL 12 V, 50 W lamp	Halogen	50	Alien 05 Recessed Alien 05 Stem Mount
97020000	Osram T5 FH 28 W/827 HE 2700 K warm white tube	Fluorescent	28	Cyclo 02 Cyclo 04 * Cyclo 04 Wallwasher * Cyclo IP65 02 Cyclo IP65 02 DMX Cyclo IP65 04 * Cyclo IP65 04 DMX *
97020001	Osram T5 FH 28 W/840 HE 4000 K cool white tube	Fluorescent	28	Cyclo 04 Cyclo 04 DMX Cyclo 04 Wallwasher Cyclo IP65 04 Cyclo IP65 04 DMX
97020002	Osram T5 FH 28 W/860 6000 K white	Fluorescent	28	Cyclo 02 Cyclo 04 * Cyclo 04 Wallwasher Cyclo IP65 02 Cyclo IP65 02 DMX Cyclo IP65 04 * Cyclo IP65 04 DMX *

** Approved for this product., but not included*

Lamps

Part Number	Lamp	Type	Wattage	Used in
97020003	Osram T5 FH 28 W/60 HE red tube	Fluorescent	28	Cyclo 03 Cyclo 03 DMX Cyclo 04 Cyclo 04 DMX Cyclo 04 Wallwasher Cyclo IP65 04 Cyclo IP65 04 DMX Cyclo IP65 03 Cyclo IP65 03 DMX
97020004	Osram T5 FH 28 W/66 HE green tube	Fluorescent	28	Cyclo 03 Cyclo 03 DMX Cyclo 04 Cyclo 04 DMX Cyclo 04 Wallwasher Cyclo IP65 04 Cyclo IP65 04 DMX Cyclo IP65 03 Cyclo IP65 03 DMX
97020005	Osram T5 FH 28 W/67 HE blue tube	Fluorescent	28	Cyclo 03 Cyclo 03 DMX Cyclo 04 Cyclo 04 DMX Cyclo 04 Wallwasher Cyclo IP65 04 Cyclo IP65 04 DMX Cyclo IP65 03 Cyclo IP65 03 DMX

Rigging

CLAMPS

Martin clamps are manufactured from premium extruded aluminum, are supplied with a grade 8.8 M12 bolt and self-locking nut, and fasten to existing or new ¼-turn omega brackets. All clamps and brackets come with TÜV and SWL markings.

HALF-COUPLER CLAMPS

Martin half-coupler clamps fit 48 to 51 mm (1⅞ 2 inch) diameter trusses and provide a large contact area for excellent grip. Martin half-couplers mount fixtures close to the truss and cause minimal truss wear and tear. An M12 bolt for fastening to omega brackets is included.

G-CLAMPS

Martin G-clamps fit 40 - 51 mm (1½ - 2 inch) diameter trusses and their ribbed aluminum clamping surfaces give better grip than steel. The wide, spring-loaded clamp plate tightens securely without scratching. Martin G-clamps are low-cost and include an M12 bolt.

QUICK TRIGGER CLAMP

Compact and mounted in a couple of seconds, the Martin quick trigger clamp can be used with 38.1 - 51 mm (1½ - 2 inch) diameter trusses. The clamp has spring-loaded jaws, a large, easy-grip T-handle for rapid leveraged tightening and an M12 bolt.

OMEGA BRACKET

The standard Martin omega bracket with ¼-turn fasteners gives a fast, secure attachment point for rigging clamps on Martin fixtures.

T-SHAPED OMEGA BRACKET

The Martin T-shaped omega bracket is a flexible system for attaching fixtures to trusses with different dimensions. Adjustable clamp spacing allows the ¼- turn omega brackets to be used with all MAC fixtures (except the MAC 101) in all common truss designs.

SUPER TRUSS BRACKET

The Super Truss bracket can be used to hang MAC products* on a truss with 20.5" (52 cm) spacing between front and back bars. This allows fixtures to be hung closer together while keeping them centered on the truss. The bracket comes complete with half-couplers.

SWING WING MOUNTING PLATE

The Swing Wing bracket can be used to hang MAC products* in Tomcat Global's Swing Wing truss. It gives greater clearance between the fixture and the floor during transit by hanging the fixture close to the mounting bar. It comes complete with half-couplers.

* MAC III Series, MAC 2000 Series, MAC 700 Series, MAC 575 Krypton, MAC TW1

ORDERING INFORMATION

Half-coupler clamp	P/N 91602005
G-clamp:	P/N 91602003
Quick trigger clamp:	P/N 91602007
Standard omega clamp attachment bracket with ¼ -turn fasteners:	P/N 91602001
T-shaped omega clamp attachment bracket with ¼ turn fasteners:	P/N 91602008
Swing wing mounting plate with half-couplers:	P/N 91602010
Super Truss 20,5" mounting plate with half-couplers:	P/N 91602014

SAFETY WIRE

Martin safety cables are designed for easy attachment. A 50 kg (110 lb.) SWL (Safe Working Load) version is available for all Martin fixtures except the MAC III, for which a 70 kg (154 lb.) SWL version is available.

Specifications

PHYSICAL	
Length:	685 mm (27 in.)
Wire diameter:	6 mm (0.24 in.)
SWL:	70 kg (154 lbs.)
ORDERING INFORMATION	
Safety wire, SWL 70 kg:	P/N 91604004
PHYSICAL	
Length:	600 mm (23.6 in.)
Wire diameter:	5 mm (0.2 in.)
SWL:	50 kg (110 lbs.)
ORDERING INFORMATION	
Safety wire, SWL 50 kg:	P/N 91604003

Rigging

RAINMAC

The RainMAC is a simple and effective way to protect your MAC luminaires from rain and moisture. Ideal for festivals and outdoor events, the tough, UV-resistant RainMAC covers the base of any MAC moving light to protect it from the worst of the elements, enabling your show to keep running in wet weather.

Extremely easy to fit, the RainMAC has 12 slots for all Omega Bracket positions and has attachment points for safety wires. Plastic plugs close the unused slots, deflecting a degree of moisture or rain. The RainMAC stacks easily for transport and is flexible and robust.

Specifications

PHYSICAL	
Width:	465 mm (18.3 in.)
Length:	525 mm (20.7 in.)
Weight:	1.1 kg (2.4 lbs.)
ORDERING INFORMATION	
RainMAC (minimum order 4 items):	P/N 91611082

Flightcases

In order to fully protect and conveniently transport Martin lights while on the move, a full range of durable flightcases is available.

Built to endure the rigors of the touring and rental market, these classic cases are manufactured from top-quality, water-resistant 9 mm ply. The exterior is covered in a tough, water-repellent, black grained finish with 30 mm aluminum edge protection and tough steel corners.

Resilient roller castors are mounted to the base for easy roll-on/roll-out and convenient spring-back, steel carrying handles provide for easy grip and handling.

For product specific flightcases, see Accessories and/or Ordering Information under each product.

Cables

For reliable, trouble-free communication, Martin offers a variety of high-quality link cables (24 AWG) and rugged Ethernet cables (26 AWG) of various lengths, as well as converters and DMX termination plugs. Martin cables are designed to withstand the extreme conditions of the professional touring segment from frequent usage and coiling to constant weathering.

Tools

FIXTURE BEAM ANALYZER™

The Fixture Beam Analyzer uses a standard webcam (not included) to analyze a lighting fixture's output on any surface, making lamp adjustments an easier and more accurate procedure for a more uniform field of light.

Features

- Easier, more accurate lamp adjustments
- Fixtures run more efficiently and at maximum output
- No need to stare into the field of light
- Easy to use - no experience or training required

ORDERING INFORMATION

Fixture Beam Analyzer, Complete	P/N 91611350
Fixture Beam Analyzer, Hardware	P/N 91611351

Martin Service

Martin Professional is the only intelligent lighting manufacturer to offer a complete and comprehensive service package anywhere in the world.

7 days a week, 24 hours a day, we are there for you.

Martin Service protects your investment and ensures your equipment operates at its optimum performance year after year, no matter what the environment.

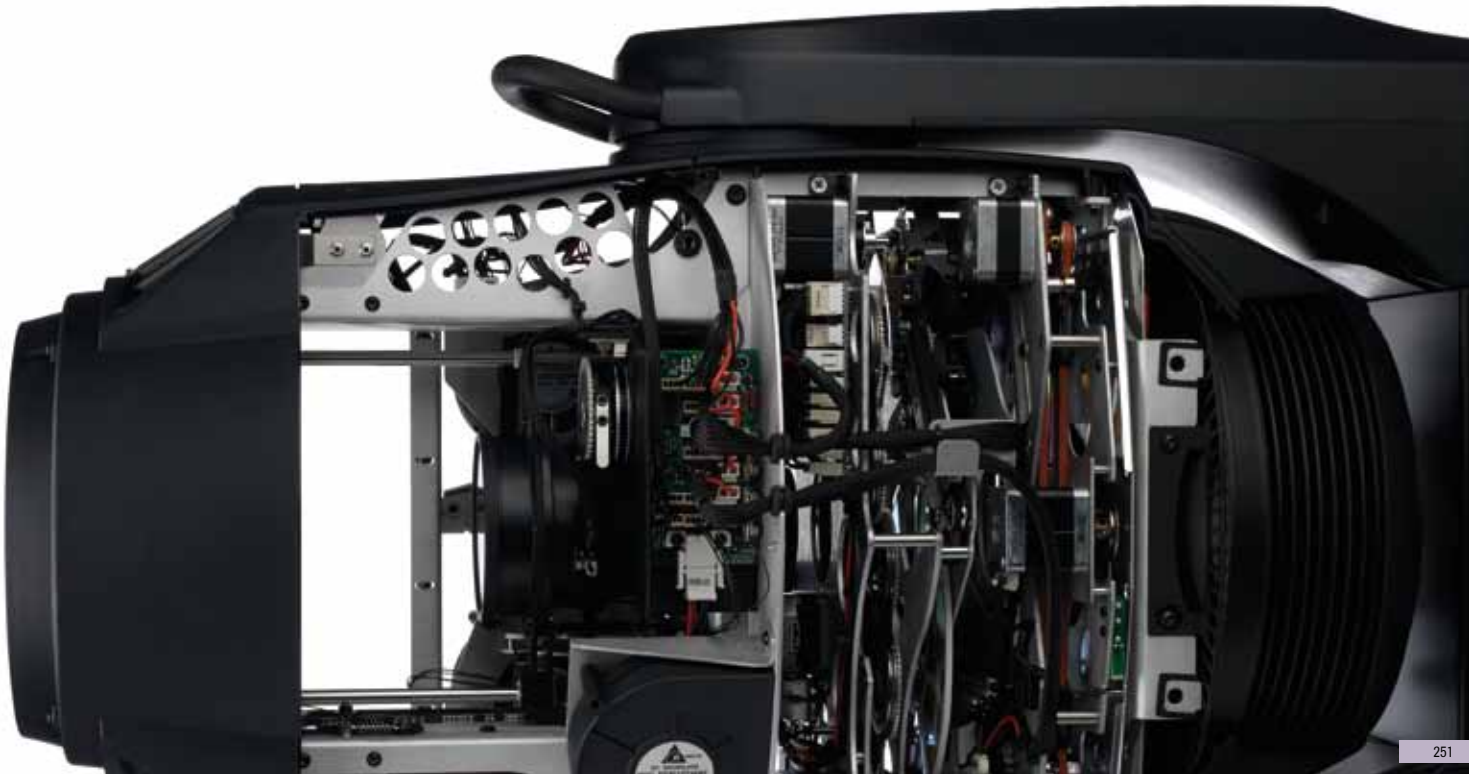
With a range of service contracts to suit each and every application, Martin Service takes the hassle out of installation and maintenance and gives you a true and healthy return on your investment.

Martin Service offers:

- Trouble-free installation
- Equipment upgrades
- Easy access to spare parts
- Optimized return on investment
- Access to product expertise
- Product training
- Extended warranty
- On-line advice
- On-site service contracts

24 hour support hotline:

- Worldwide: +45 87 40 00 00
- USA: 1-888-TECH-180



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